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The Analysis of the Reaction Phase of Reading by Examining the Frequency of Pupil-Initiated Talk in Second, Fourth, and Sixth Grade Reading Classes as Measured by the Verbal Interaction Category System

Charles A. Allen Jr. University of Nebraska at Omaha

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THE ANALYSIS OF THE REACTION PHASE OF READING BY EXAMINING THE FREQUENCY OF PUPIL-INITIATED TALK IN SECOND, FOURTH, AND SIXTH GRADE READ-ING CLASSES AS MEASURED BY THE VERBAL INTER-ACTION CATEGORY SYSTEM

A Field Project

Presented to the Department of Educational Administration

and the

Faculty of the Graduate College University of Nebraska at Omaha

In Partial Fulfillment

of the Requirements for the Degree

Specialist in Education

by

Charles A. Allen, Jr.

July 1971

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ProQuest LLC. 789 East Eisenhower Parkway P.O. Box 1346 Ann Arbor, MI 48106 - 1346 Accepted for the faculty of The Graduate College of the University of Nebraska at Omaha, in partial fulfillment of the requirements for the degree Specialist in Education.

Graduate Committee

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#### CHAPTER I

### INTRODUCTION

Reading is probably the most important skill taught in the elementary grades. School success and future goals hinge upon a person's ability to unlock the written code and to comprehend the meaning. From the halls of the Congress of the United States has come the "right to read" proposal. Every child has the "right to read" as guaranteed by the Fourteenth Amendment of our Constitution. Allen stated in <u>Reading Crises: The Problem & Suggested Solution</u> that:

"We should immediately set for ourselves the goal of assuring that by the end of the 1970's the right to read shall be a reality for all - that no one shall be leaving our schools without the skill and the desire necessary to read to the full limits of his capability."

Cliches and other slogans often carry an emotional element of society's concern about an issue of the time. Schools have been wrestling with the problem of teaching all children to read up to their capabilities for years. Most schools use a variety of material, an eclectic

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approach, to provide the proper stimuli for the development of the necessary reading skills in children. School systems across the country are constantly evaluating their reading programs to determine to what extent the programs meet the needs of children. Refinement of techniques in teaching reading are occurring in various ways. Ability grouping, interest grouping, closer examinations at reading readiness, multi-sensory approaches, and community involvement of volunteers are just a few methods schools are employing to meet the goal of the 1970's.

Most recent research in reading is focusing upon the beginning or initial reading phase. The importance of insuring success at this stage is vital. Children must be able to decode symbols before they are able to move into the more complex skills of comprehension and interpretation. There are other areas of concern also. Critical reading skills which allow children to interpret what they have read are of equal importance.

The writer, an elementary principal in the Harlan Community School System, was responsible for supervising instruction in his two elementary buildings. While carrying out this duty through classroom visitations and other more

indirect ways, the writer began to question if teaching children to read should be conducted basically in the same manner in grades one through six. As children gain reading skills through their elementary grades, should the behavior of teachers and their approach to reading change? Do educators still need to have three, or two, or one reading circle in the sixth grade with the teacher asking the questions and the children responding? Are children encouraged to react and interact with other readers about their reading assignments? Smith (1963:285) brought up the following questions:

"Are we conducting discussions at a level which is too low, in many instances, to stimulate real thinking on the part of boys and girls? Are we, too often simply asking them to repeat, parrot-like, what is said in the book rather than guiding discussion in ways which will encourage them to probe for deeper meanings and to evaluate critically?"

Reading may be thought to be made up of three distinct acts or phases. Word recognition would be the first phase of reading, because one would need to be able to recognize the printed symbol and translate it into a recognizable sound before he could understand the reading. Comprehension or the ability to understand what the symbol means, is the second part of the total reading act. The final phase would be the reaction phase or the ability of the reader to take his understanding and do something with it. Cushenbery (1969:2) has written: "It is vitally important that pupils REACT to what they have read in accordance with their own experiences."

It is the opinion of the writer that the reaction phase of reading should be given new attention. As the student becomes more proficient in word recognition and comprehension skills, then more time should be devoted to student reaction or the student's evaluation of the assigned reading material.

#### PROBLEM

If children are to progress past the stage of sounding out words and being able to understand sentence thought to the more complex skills of interpretive and evaluative thinking, then reading classes in sixth grade should differ substantially from second or fourth grade reading classes. Students should be given more time and opportunity to react and interact with one another and the teacher. Lengthier discussions should evolve with the teacher moving to the

background and encouraging readers to express their ideas, regardless of their feelings of uneasiness.

The purpose of the study is not to evaluate individual teachers and their teaching reportoire, but rather to examine the frequency of pupil-initiated talk in reading classes.

#### HY POTHES IS

There is no significant difference in pupil-initiated talk in second, fourth, and sixth grade reading classes as measured by the Verbal Interaction Category System.

### ASSUMPTIONS \*

- 1. Amidon's system of interaction analysis is an adequate instrument for determing the amount of pupil-initiated talk in a reading class.
- 2. The recorder correctly categorizes the verbal interaction that takes place in the classroom.
- 3. The recorder's presence will not interfere significantly in the classroom atmosphere.
- 4. Three visits to each classroom are samply enough to be indicative of normal reading procedure in each room.

- 5. The greater amount of pupil-initiated talk indicates the greater amount of pupil interactions or discussion which in turn expresses student reaction.
- 6. Indirect teaching techniques foster interaction among students which enable readers to react to thought and ideas.
- 7. As children master word analysis and comprehension skills, more time should be devoted to developing the children's interpretive skills by allowing for pupil interpretive skills by allowing for pupil interaction over common reading assignments.
- 8. The reaction phase of reading is extremely important in the total development of a reading program.
- 9. The second, fourth, and sixth grades are representative of the progression of reading skills learned in elemen-tary schools.

## DELIMITATIONS

- The possibility exists that the teachers who are participating in the study are aware that the recorder is looking for pupil interaction and, are, therefore, more indirect during the recorder's visitations.
- 2. The recorder records for only ten minutes per visit so it is possible that the period of maximum interaction is not tallied.
- 3. The frequency of pupil-initiated talk as illustrated in areas, O, P, Q, R, S, and T on the Verbal Interaction Category System matrix is indicative directly to the true proportion of time being given in developing students reactions to their reading.
- 4. The study was limited to second, fourth, and sixth grades because the writer felt they were representative of the variance in reading objectives.

#### DEFINITION OF TERMS

<u>Reaction Phase</u> - This is the period of time after a reading selection in which the student discusses his ideas and thoughts with other students or teacher in order to evaluate his thoughts.

<u>Verbal Interaction Category System</u> - A system of verbal interaction analysis that was developed by Edmund Amidon of Temple University. The system categorizes speech into seventeen different categories.

<u>Verbal Interaction</u> - The verbal patterns or verbalization in any setting, whether it be teacher-initiated or pupilinitiated is considered verbal interaction.

<u>Matrix</u> - A matrix is a graphic presentation used to display the verbal patterns in a studied session by the classification of data on a chart of seventeen horizontal and vertical columns.

<u>Tallies</u> - The recorder makes a notation every three seconds to illustrate the type of verbal interaction that is taking place. Each notation, when coupled with the subsequent notation becomes a tally which will be illustrated on a matrix.

<u>Indirect Teaching Techniques</u> - This may be defined as the necessary behavior on the part of the teacher to guide a discussion so that the children express themselves openly and regularly with the teacher being in the role of a catalyst. <u>Pupil-Initiated Talk</u> - The talk which a teacher does not solicit, in which the student brings out an idea or thought. It may be in the form of a question or statement. It may be to another student or to the teacher.

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#### CHAPTER II

### RELATED RESEARCH

As children pass through the various phases of reading, the skill becomes more complex. Teachers, as agents of education, must change methodology or approaches as children progress in their reading skills. Word recognition skills and critical reading skills represent two different phases of reading and should be taught differently. Bond and Tinker (1967:272) have written:

"In the primary grades considerable attention must be devoted to developing word-recognition techniques and the building of sight vocabulary. As these skills are acquired, there is greater opportunity for the pupil, when he reads to concentrate on comprehension. Then with the accumulation of a richer background of reading and other experiences, with increasing maturity and improved reading proficiency during progress through the upper grades, reading comprehension gets its opportunity to become superior to listening comprehension. This is because the reader can stop, reflect, evaluate or debate, or of course reread parts of the material."

The writer believes that the basic verbal structure of a class should be significally different in second grade and sixth grade. If it is true that a sixth grade reader

should be able to stop, reflect, evaluate or debate something he has read, then the class dialogue should be structured to make this possible. Methodology should be employed to best teach the various reading skills at the different levels. Smith (1969:251) states:

"Comprehension is a complex process, and its faces are multiple and divergent. Research on reading in depth is much too scant; the thinking skills involved are not as specifically delineated as we would like to have them; effective methodology in this area is limited."

It is interesting that Smith states that effective methodology in the area of transmitting comprehension skills is limited. It seems that the limitation may have been imposed by the teaching profession itself. Teachers may not be exploring, in the fullest, ways to communicate the skills in critical reading. Durr (1967:1) wrote:

"The term 'critical reading' is relatively new in the teacher's lexicon. It has evolved from an increasing awareness of the importance of the reader's reacting to or thinking about ideas expressed by the writer."

Teachers, especially upper elementary teachers, must break away from many of the traditional methods of teaching reading. New attention must be given to developing critical reading skills whereby children are encouraged to react to or think divergently about their reading assignments. How many children know how or what to question when reading? Durr (1967:2) asserted that:

"Most pupils enrolled in the later grades of the elementary school are poorly equipped to read critically. In the first place, they have acquired certain beliefs that make them unwilling to question statements in informative material."

This fear of questioning or reacting to read material by pupils has been reinforced by teacher behavior. The teacher and book has been at the center of learning and children react or evaluate only to those items to which the teacher assigns them. If learning is a social process and children learn from their peers, then conditions should be set up in which children can react to and with other children on common reading assignments. Ziller (1969:62) pointed out that, "the process of learning to read is, from the outset, a social process." Pursuing this concept deeper, Bush and Huebner, (1970:11) stated:

"Piaget's theory of intellectual development yields the following suggestions for teachers: The child's ideas must be harmonized with one another through social learning (equilibration theory) - children must communicate with each other."

Having children relate to one another in discussion groups may not insure correct answers and correct conclusions,

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but this is due to their lack of wide experiences in areas of the reading. It does insure questioning, searching, evaluating, self-expression, and use of the critical reading process. Teachers still offer opinions, but after the children have had opportunity to express themselves. As children begin to react to one another, a spontaneous atmosphere will develop. Artley (1968:48) contended:

"It should be pointed out that though changes taking place through reading are an individual matter they can be brought about more effectively as children respond and react to each other over material that has been read as a common experience. Each reader's reactions trigger off reactions and feelings in others."

Many teachers see themselves in a different way than the children perceive them. Mostteachers realize questioning and interaction are important ingredients in effective learning atmospheres, but fail to understand that they, the teacher, do most of the talking, questioning, and interacting for the children. When silence occurs, the teacher generally blurts in with a comment rather than have an uneasy moment in the class.

The skill of encouraging class discussion is a complex one. Often the teacher must challenge the students to think, but must know intuitively when this becomes a

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threatening situation. Knowing when to back off is an important skill teachers must culture. Amidon (1966:54) said:

"Combs and Snugg hold that the genius of good teaching lies in the ability to challenge students without threatening them and that the distinction between challenge and threat lies not in what the teacher thinks he is doing, but in what the students perceive him to be doing."

Agreeing with the idea that classroom atmosphere is significant in developing dialogue between students,

Gans (1968:43) pointed out:

"The classroom atmosphere must be conducive to thinking. It must be an atmosphere in which all youngsters feel at ease, are encouraged to think for themselves, and to express their ideas even if divergent from others including the teachers, and are able to accept correction and help in thinking better."

Darling (1969:309) in commenting on some of his

classroom observations suggested:

"If the teacher-student interactions and the teachermade tests analyzed here are representatives of reading evaluation in general (and there is no strong reason to suspect otherwise), it appears that little or nothing is being done which assesses or evaluates the feelings, emotions, or values the learner has about reading or derives from reading."

Feelings, emotions, values, and ideas that readers derive from reading are extremely important outcomes of Sec. 3

reading critically. Children must be taught to become questioners, evaluators, and seekers of the truth. In order to teach or transmit these skills, students must be given the opportunity for expression or reaction. Children are able to assist one another in gaining this ability by interacting with one another over common materials. Classes need to be engineered to achieve this goal Bond (1960:215) contended that:

"He who has learned as we call it to read without having learned to judge, discriminate, and choose has given hostages of dependence to powers beyond his control. He has prepared for himself a readiness to undergo new modes of intellectual servitude."

In analyzing the methodology of reading classes in grades 2, 4, and 6 in the Harlan Community School System, the writer chose to examine the verbal behavior of both teacher and students. As teacher methods change, so do the verbal patterns within the classroom,

The writer used the Verbal Interaction Category System as the instrument to gather data for this project. The device was developed by Amidon and is a modified version of the more familiar Flander's Interaction Analysis. It categorizes talk into seventeen different verbal categories depending upon whether it is a response or initiated speech.

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The writer has used this instrument previous to this project. It was used by the recorder for a practicum during his Master Degree program. He has also demonstrated its use at several inservice education meetings.

The validity of examining speech patterns in classrooms and making subsequent judgments has been questioned. Amidon (1968:3) stated in reference to the Flanders System:

"Although this particular approach has been used for classroom research for nearly twenty years, its use has become widespread only during the last four years. It has found its way into many different kinds of educational programs - both research and developmental. Basically, Interaction Analysis has been used to help quantify teacher verbal behavior."

Many universities are using various forms of Interaction Analysis to help student teachers. Primarily, it is a feedback technique for student teachers so that their teaching behavior may be dramatically-illustrated for self improvement. Bondi (1969:5) wrote:

"Recently, the process of systematic observation of classroom interaction has been developed and shows great promise as a feedback mechanism. An observational system is defined here as any systematic technique for identifying, classifying, and quantifying specific teaching activities. Of the observational systems currently available, Flander's system of Interaction Analysis is probably the most widely known and used.... The results of this study clearly show that those student teachers who received interaction analysis feedback differed significantly from those student teachers who did not in their use of the following verbal behavior: (1) they used more praise; (2) they accepted and clarified student ideas more; (3) they used more indirect teacher talk as opposed to direct teacher talk; (4) they used more extended praise; (5) they had more extended use of student ideas; (6) they used more positive affective talk; (7) they accepted student ideas more after teacher-initiated student-talk; (8) they used more positive reinforcement after teacher initiated student talk; (9) they criticized students less; and (10) they used less lecture."

The importance of Bondi's comment is that it shows the type of feedback an interaction analysis instrument is able to give. By analyzing the matrix of a recorded session, the recorder is able to make a variety of conclusions. A quick glance of a matrix yields high frequency areas which in turn feedback the type of verbal commentary that has taken place. A great number of tallies in a teacher talk area indicates that the teacher is dominating the discussion.

A close look at the number of tallies in the areas indicating pupil-initiated talk is important when determining the freedom to question or react by students. As has been stated previously this freedom of questioning and reacting to materials is an important criterion in critical reading skills.

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Hunter (1966:5) wrote:

"In conclusion, interaction analysis is an effective feedback mechanism and teachers should have an opportunity to utilize feedback from systematic observations made to their own verbal behavior."

A copy of the Amidon system is illustrated in the Appendices for further examination.

#### CHAPTER III

#### DESIGN OF THE STUDY

## PROCEDURE

A. <u>General Design</u> - The writer chose to study the frequency of pupil-initiated talk in second, fourth, and sixth grades in the Harlan Community Schools. Since the study focuses upon the problem of whether reading classes are handled in much the same manner by elementary teachers regardless of grade level and reading skills to be taught, an examination of pupil interaction within the classes is significant. The writer felt that second, fourth, and sixth grades were indicative of the progression of reading skills in the elementary school. First grade was not included as the beginning level to be examined because much of instruction deals with readiness activities, rather than on the word attack and comprehension skills.

Careful consideration was given when designing the field project so that the project could indeed be

helpful in inservice work in the school system. One of the major questions was how to collect data without threatening the participating teachers. Before the study was ever proposed, the teachers of second, fourth, and sixth grades were asked to help the writer in a graduate study by allowing him to visit their rooms during their reading period. The point was made clear that the writer was not evaluating their teaching, but was making a graduate study for college credit. Although the visits were to be unannounced, the teachers, all fifteen of them, consented to participate in the study.

Another consideration was to determine the number of visits per teacher that would be necessary to make the study valuable. To alleviate the chance of recording when a teacher was holding an unusual session, the author decided that three visitations per teacher were needed for a valid comparison of pupil-initiated talk at the three grade levels.

Length of recording verbal interaction at each recording session was another decision to be faced by the author. Since frequency of pupil-initiated talk correlates directly to the length of recording interaction, it was decided that the length of actual recording should be a set time limit

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or set number of tallies established for each session. The writer developed a tally sheet which would record 190 tallies per session. The recorder began categorizing the classroom interaction when he thought it lent itself to freer dialogue or preferably when discussing a reading selection. This meant that on some visits, the recorder would observe a class for twenty minutes or more before a time of recording would begin. Once the recorder began to categorize speech, he would make it continuous for the full 190 tallies.

The writer gathered all of the data within an eight week period. It was felt that the writer should visit all teachers once before the second visitation and this was true between the second and third visitations. This would help to make the comparison of grades more accurate because the skill of the recorder was better as the study progressed. B. <u>Population</u> - The population for the study was all of the second, fourth and sixth grade classes in the Harlan Community School System.

## SOURCES OF DATA

A. <u>Instrumentation</u> - The instrument used for the collection of data for this field project was Verbal Interaction

Category System, as illustrated in Table 6 of the Appendices. This device categorizes speech into seventeen different categories. By examining the frequency of tallies in different areas on the matrix, the writer was able to make judgment concerning classroom atmosphere, teacher directness, or indirectness, and quantify speech into patterns. Table 7 of the Appendices will explain the areas of the matrix and what they are able to illustrate.

B. <u>Method of Gathering Data</u> - As has been stated previously, speech is categorized into one of seventeen different categories. The recorder makes notations, which are his judgment of what category the talk best fits, every three seconds. If a change in category takes place before the three second interval, the recorder marks this change.

For each class visitation, the recorder tallies the interaction based upon appropriateness of interaction for approximately ten minutes. This meant that for each visit the recorder had 190 tallies. By the number of tallies remaining constant for each visit and the visitations remaining constant for each grade level, the frequency of pupil-initiated talk was able to be compared accurately.

Each of the forty-five class recording sessions will be illustrated on matrices in Appendix B. Special attention will be given to Areas O, P, Q, R, S, and T on the matrix for these mirror the frequency of pupil-initiated talk.

C. <u>Analysis of Data</u> - After the writer recorded the tallies for each visit on the matrices, he computed the number of marks which fell in Areas O, P, Q, R, S, and T by teacher and grade level. Since the scores for each teacher and grade level were independent of other scores, the writer utilized a test of analysis of variance by which to test the hypothesis for this field project. The writer was interested in significant differences at the .05 level and the .01 level so that both were computed.

In addition to the analysis of variance test which furnished the over-all test of significance of the differences among means, the t test which is used to test the separate difference was calculated. All of the above data will be included in Chapter IV.

### CHAPTER IV

## PRESENTATION AND ANALYSIS OF DATA

The hypothesis for the field project was that there was no significant difference in pupil-initiated talk in second, fourth, and sixth grade reading classes. The instrument used to measure the frequency of pupilinitiated talk was the Verbal Interaction Category System. The purpose of questioning the frequency of pupil-initiated talk was the premise that as children progress through the spectrum of reading skills, the basic verbal behavior of both teacher and pupil should change.

The author became concerned as he supervised instruction in his elementary buildings that teachers regardless of grade level taught reading in much the same manner. There appeared to be very little spontaneous reaction to reading that was assigned during the reading period. The review of stories seemed to be dominated by the teacher and the questions were narrow without much of a chance to react to the material.

With these thoughts in mind, the writer designed this field project for the purpose of feedback to his fellow teachers. In the subsequent pages the data of this study will be viewed.

Areas O, P, Q, R, S, and T are the areas on the matrix that indicate a particular type of pupil-initiated talk. The writer categorized talk for approximately ten minutes in each of the five classes in second, fourth, and sixth grades. Each teacher was visited three times so that the data for this study was collected by forty-five classroom visitations.

After each recording session the writer graphed the information he had obtained onto the Verbal Interaction Category matrix. He then counted the number of tallies that were located in areas O, P, Q, R, S, and T on the matrix. For the purpose of this study, the writer was only interested in the frequency of tallies found in the above areas.

In order to determine significant difference between three independent groups or grade levels, an analysis of variance was used. In Table 1 we find the scores of tallies listed by grades that were discovered in areas 0, P, Q, R, S, and T. There are fifteen scores under each grade

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indicating the three visits per each five teachers per grade level. It is easily recognized from Table 1 that the pupil-initiated talk did increase as the children developed their reading skills.

For computational purposes, the sums for each grade, means for each grade, grand sum and general mean are figured in Table 1. Remembering that there were a possible 190 tallies for each recording session, one can see that the average for second grade 13.87 is not large.

Та	b	1	е	1	

A Comparison of Frequency of Pupil-Initiated Talk in Second, Fourth, and Sixth Grade Reading Classes

2 <sup>nd</sup>	4 <sup>th</sup>	6 <sup>th</sup>
10	14	8
13	20	51
38	36	56
4	30	15
9	15	21
6	38-	13
6	33	29

			*	
	2 <sup>nd</sup>	4 <sup>th</sup>	6 <sup>th</sup>	
	44	6	23	
	14	37	30	
	23	7	47	
	.3	37	32	
	7	30	49	
	17	23	62	
	3	11	33	
	11	20	49	
Sum's	208	357	518	Grand Sum - 1083
Mean's	13.87	23.80	34.53	Gen. Mean - 24.07

Table 1 (continued)

The next few steps necessary to determine whether a significant difference existed between the studied grades in pupil-initiated talk is found in Table 2. These steps were helpful in getting figures that could be plugged into formulas later on in the process.

## Table 2

Calculation of Sums of Squares

Correction term (C)<sup>\*</sup> =  $\frac{(1083)^2}{45}$  = 26,064.2 Step 1. Total Sum of Squares Step 2. =  $(10^2 + 13^2 + \ldots + 33^2 + 49^2) - C$ = 37,217 - 26,064.2 = 11,152.8 Step 3. Sums of Squares among Means of 2nd, 4th, & 6th  $= (208)^{2} + (357)^{2} + (518)^{2} - C$  $= \frac{268,324 + 127,449 + 43,264}{15} - 26,064.2$ 29,269.13 - 26,064.2 = 3204.93= Step 4. Sum of Squares within Conditions of 2nd, 4th, & 6th Total SS - Among Means SS = 11,152.8 - 3,204.93 =

= 7947.87

Table 3 summarizes the analysis of variance. The variance ratio (F) in this study is 8.47 and the degrees of freedom (df) are 2 for the numerator (df<sub>1</sub>) and 42 for the

denominator (df<sub>2</sub>). By examining a table which gives the variance ratio, the writer discovered that an F of 3.22 is significant at the .05 level and an F of 5.15 is significant at the .01 level. These entries mean that for the given df's, variance ratios or F's of 3.22 and 5.15 can be expected once in 20 and once in 100 trials, respectively, when the null hypothesis is true. Since the variance ratio for this field project is larger than the .01 level, it would occur less than once in 100 trials by chance. The hypothesis is rejected and the writer concludes that the pupil-initiated talk does differ significantly in reading classes at the second, fourth, and sixth grades.

### Table 3

Source of Variation	df	Sums of Squares	Mean Square (Variance)
Among the means of conditions	2	3204.93	1602.47
Within Conditions	<u>42</u>	7947.87	189.23
	44	11165.80	
$F = \frac{1602.47}{189.23} = 8.47$			$df_{1} = 2$ $df_{2} = 42$ F at .05 = 3.22 F at .01 = 5.15

Summary: Analysis of Variance

F furnishes a comprehensive or over-all test of the significance of the differences among means. A significant F does not tell the reader which means differ significantly, but that at least one is reliably different from some others. As has been concluded, there is a significant difference between grade levels in pupil-initiated talk in reading classes, the writer decided to test the separate differences by the t test.

The best estimate one is able to make of the uncontrolled variability arising from individual differences is given by the standard deviation (SD) of 15.75. Table 4 illustrates the basis of finding the standard deviation.

· (1)	(2)	(3)	(4)	(5)	(6)	(7)	
Scores	Midpoints	f	fX	x	fx	$fx^2$	
 60-64	62	1	62	+38	38	1444	
55-59 ,	57	1	57	+33	33	1089	
50-54	52	l	52	+28	28	784	
45-49	47	3	141	+23	69	. 1587	
40-44	42	l	42	+18	18	324	

Table 4

The Calculation of SD for Field Project

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		-					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Scores	Midpoints	f	fX	x	fx	$fx^2$	
35-39	37	5	185	+13	65	845	
30-34	32	6	192	+ 8	48	384	
25-29	27	l	27	+ 3	3	9	
20-24	22	6	132	- 2	-12	144	
15-19	17	3	51	- 7	-21	147	
10-14	12	7	84	-12	-84	1008	
5-9	7	7	49	-17	-119	2023	
0-4	2	3	6	-22	-66	1452	
	N =	= 45 🔨	1080		$\sim$	11240	
SD =	$\frac{\Sigma_{fx}^2}{N}$	= √	<u>11240</u> 45		= √24	19.77	
SD = 1	5.87						

The standard deviation was needed to calculate the tests of differences by use of t. The purpose of this test is to isolate each grade level in determining the variance

Table 4 (continued)

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of difference. Table 5 shows the method by which the author concluded that the difference between the second and sixth grade reading classes was greatest at 20.66. The difference is significant at both the .05 level and .01 level. The difference between the second and fourth grades was 9.93 and the difference between the fourth and sixth grades was 10.73. This does not qualify for a significant difference because a difference of 11.76 is needed at the .05 level and 15.71 at the .01 level.

The writer concludes that even though the differences was close to 11.76 for the comparison of fourth grade to sixth and second grade to fourth, the difference is not conclusive. The apparent reason the null hypothesis was not true was because of the great difference of pupilinitiated talk between second and sixth grades. The test of analysis of variance did not break down the significant difference by grade levels. As a result, if the writer did not compute the t test, the reader might conclude that a significant difference did, indeed, exist between second and fourth grades and fourth and sixth grades. The t test illustrates this to be wrong.

31 \*

# Table 5

SDw SEm For df = 42 t .05 = 2.02= t .01 = 2.70 $= \frac{15.87}{3.87} = 4.1$  $SE_d = \sqrt{4.1^2 + 4.1^2}$ = √33.62 = 5.82 D  $.05 = 2.02 \times 5.82 = 11.76$ D  $.01 = 2.70 \times 5.82 = 15.71$ Largest difference between 2nd and 6th grades = 20.66 Smallest difference between 2nd and 4th grades = 9.93 1 difference of significance at .01 level 1 difference of significance at .05 level

Tests of Difference by Use of t

As has been mentioned previously, the hypothesis for this field project was proved false. There was a significant difference of pupil-initiated talk at the second, fourth and sixth grade. There is a very strong significant difference between the second and sixth grades.

It was the writer's observation while recording and categorizing the sessions for this study that there was in reality, little student interaction with fellow students. Most of the pupil-initiated talk was directed toward the teacher in expressing an idea or asking a question. Spontaneous interaction or reaction to stories was observed only on a couple of occasions. It was surprising to the writer in analyzing the data to discover that the older children were initiating comments as frequently as the data indicated.

#### CHAPTER V

### SUMMARY AND CONCLUSION

As has been presented in the previous chapter, the null hypothesis of this field project was proved false. It was discovered through a statistical analysis that pupilinitiated talk in reading classes does, indeed, differ at the various grades. As children progress through the elementary grades, there is more pupil-initiated talk.

The writer strongly believes that this is a good development. As children gain word attack skills and are able to read independently, they need to expand their thoughts by bringing in their own experiences in evaluating what they have read. Students need to interact with one another over their reading material to learn that people are able to read the same material and come away with different concepts.

Teachers need to engineer their reading periods, especially in the upper grades, in using group discussions, debates, and other vehicles which encourage children to think

critically. Teachers need to step to the background and nurture student leadership in evaluating ideas. As teachers begin to talk less, children will take over the teacher role in discussions and will initiate talk one to another. The best method in teaching someone to do something is to let them experience it for themselves. If the role of the school is to help children not only read, but also interpret what they have read, in terms of their own experiences and values, then they must experience judging, discriminating, and choosing for themselves.

The study revealed to the writer that children do initiate more talk in the upper grades. It was apparent from the visitations that intermediate age children enjoy sharing experiences which are similar to those in stories they have read. This natural willingness to share ideas with their peers should be capitalized upon in the area of reading.

Area S of the matrix indicates pupil initiated statements followed by student response statements. As children are given more responsibility in the discussion of reading material and teachers become guides, the frequency of tallies in Area S would increase. The study has already pointed out that the second, fourth, and sixth grades tallied

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208, 357, and 518 marks in Areas O, P, Q, R, S, and T. The writer narrowed the perspective of the study to Area S and discovered only 13, 24, and 28 tallies in second, fourth, and sixth grades. This is approximately 6% of the total number of tallies to be found in the above areas.

Reasons for the limited number of notations in Area S could be many. The author thinks that even though teachers in the upper grades solicit more pupil-initiated talk, this talk is directed to the teacher. The teacher continues to fill the role of being the hub of all discussions. The writer observed very little of the pupil-initiated talk being directed to other pupils. Most of the talk was directed back to the teacher who then referred it to the class who then referred it to the teacher who then continued the line of communication back to the class. The fallacy with this type of classroom engineering is that many children do not feel comfortable to share experiences in total group situations or when it must be transmitted through the teacher. Another consideration is that students realize that their grade is contingent upon the comments they make. As a result, some students begin playing the game of please the teacher for your grade depends upon it.

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Another significant concept of the study was the need and usefulness of instruments like the Verbal Interaction Category System as a feedback mechanism. The hypothesis of the writer was originated because of classroom supervision. It was believed that reading was not being taught differently at the various levels in the elementary school. The author was concerned over the lack of pupil-initiated comment. The Verbal Interaction Category System in an objective manner illustrated that there was, indeed, a significant difference in pupil-initiated talk as pupils progressed through school. It further demonstrated that most of the pupil-initiated talk was directed to the teacher. The writer was not able to make this distinction without the assistance of an objective systematic method of analyzing verbal behavior.

The need for teachers to become more cognizant of the verbal interaction in the classroom is very important. Many times the way in which students perceive their teachers and the manner in which teachers perceive themselves is totally different. The advantage of a verbal interaction analysis system is that the teacher is able to evaluate their own behavior in light of the purpose of the activity.

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The results of this field project will be utilized in some form of inservice education. The author believes that school systems throughout the country must begin to become active participants in educational research. Field projects of this nature are practical and useful in the refinement of education on a local level. BIBLIOGRAPHY

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APPENDICES

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### Table 6

The Verbal Interaction Category System (VICS)

Teacher-Initiated Talk 1. Gives Information or Opinion: presents content or own ideas, explains, orients, asks rhetorical questions. May be short statements or extended lecture. 2. Gives Direction: tells pupil to take some specific action; gives orders, commands. 3. Asks Narrow Questions: asks drill questions, questions requiring one or two word replies or yes-or-no answers; questions to which the specific nature of the response can be predicted. 4. Asks Broad Questions: asks relatively open-ended questions which call for unpredictable responses; questions which are thought-provoking. Apt to elicit a longer response than 3. 5. Accepts: (5a) Ideas: reflects, Teacher Response clarifies, encourages or praises ideas of pupils. Summarizes or comments without rejection. (5b) Behavior: responds in ways which commend or encourage pupil behavior. Feeling: responds in (5c) ways which reflect or encourage expression of pupil feelings.

Teacher Response	6.	Rejects:	(6a)	Ideas: criticizes, ignores or discourages pupil ideas.
			(6b) (6c)	Behavior: discourages or criticizes pupil behavior. Designed to stop undesirable behavior. May be stated in question form, but differentiated from category 3 or 4, and from category 2, Gives Direction, by tone of voice and resultant effect on pupils. Feeling: ignores, dis- courages, or rejects pupi expression of feelings.
Pupil Response	7.	Responds to Teacher:	(7a)	Predictably: relatively short replies, usually which follow category 3. May also follow category 2, i.e. "David, you may read next."
			(7b)	Unpredictably: replies which usually follow category 4.
	8.	-		other Pupil: Replies onversation between
Pupil-Initiated Talk	9.	which pup	ils di	to Teacher: Statements rect to teacher without . com teacher.
	10.	statement	s whic	to Another Pupil: Th pupils direct to another a not solicited.

Other	<pre>ll. Silence: pauses or short periods    of silence during a time of classroom    conversation.</pre>
	Z. Confusion: considerable noise which disrupts planned activities. This category may accompany other categories or may totally preclude the use of other categories.

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## Table 7

A Description of the Areas on the Matrices

Area A This is the area of prolonged teacher initiation, and includes presenting information or opinion, giving directions and asking questions. The major characteristic of this area is that the teacher is speaking for a relatively long period. This is not an area which shows interaction between pupil and teacher.

- Area B The cells in this area indicate teacher initiated statements followed by teacher response statements, either accepting or rejecting.
- Area C This group of cells includes all pupil talk which follows teacher initiated talk.
- Area D Area D indicates teacher response statements followed by teacher initiated statements.
- Area E This area indicates prolonged accepting behavior on the part of the teacher. This includes extended acceptance of ideas, behavior and feelings, as well as transitions from one of these verbal patterns to another.
- Area F These cells indicate teacher accepting behavior followed by teacher rejecting behavior.
- Area G This area here shows accepting teacher statements followed by any student statements.
- Area H Area H indicates teacher rejecting behavior followed by teacher accepting behavior.
- Area I These cells indicate extended rejecting behavior on the part of the teachers. Rejection of ideas, behavior and feelings are indicated here, as well as transition from one of these behavior to another.

- Area J These cells show all pupil statements which follow teacher rejecting statements.
- Area K This area indicates pupil response behavior followed by teacher initiated behavior.
- Area L This group of cells show student response followed by teacher acceptance.
- Area M Area M shows teacher rejection of pupil responses.
- Area N These cells show extended student response to either the teacher or another pupil.
- Area O Area O indicates pupil response statements followed by pupil initiated statements.
- Area P These cells indicate pupil initiated behavior followed by teacher initiated behavior.
- Area Q This area shows pupil initiated talk followed by teacher acceptance.
- Area R Area R indicates rejection of pupil initiated talk.
- Area S These cells indicate pupil initiated statements followed by student response statements.
- Area T This area indicated extended pupil initiated talk to either the teacher or another pupil.
- Area U Area U indicates silence or confusion. If the tallies are in row or column 11 they indicate silence, and if they are in row or column Z, they indicate confusion. Tallies in column 11 or Z represent silence or confusion following teacher or pupil talk, while tallies in rows 11 or Z represent silence or confusion after pupil or teacher talk.

MATRIX 1

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Date: 3-17-71

Tallies: O, P, Q, R, S, and T: 13

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Teacher: C-1

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Date: 4-7-71

Tallies: O, P, Q, R, S, and T: 10

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Teacher: C-1

Date: 5-3-71

Tallies: O, P, Q, R, S, and T: 38

ROWS

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Teacher: C-2 Date: 3-25-71

Tallies: O, P, Q, R, S, and T: 9

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MATRIX 5

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Teacher: C-2

Date: 4-8-71

Tallies: O, P, Q, R, S, and T: 4

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| 7b         | 1 | And a state of the local division of the loc | EA<br>1 |   |                | REA |    | -          | AREZ<br>1 | 7  |    | AREA<br>2 |         | AI<br>1 | REA |                                        |   |
| 8          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K       |   |                | L   |    |            | M         |    |    | N         |         |         | 0   |                                        |   |
| 9          |   | AF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EA      |   | 3 <sup>A</sup> | REA |    |            | AREZ      | A  |    | AREA      |         | AI      | REA |                                        |   |
| 1.0        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .P      |   |                | Q   |    |            | R         |    |    | S         |         |         | Т   |                                        |   |
| 11         |   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |   |                |     |    |            |           |    | 2  | ]         |         | 1       |     | 39                                     |   |
| z          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |   |                |     | AF | EA         | . U       |    |    |           |         |         |     |                                        |   |
| 1          | j |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | L | L              |     |    |            | ·         |    |    |           | <u></u> | ******  |     | ······································ | ‡ |

Teacher: C-2

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Date: 5-7-71

Tallies: O, P, Q, R, S, and T: 6

ROWS

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|            | 1        | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3          | 4 | 5a  | 5b  | 5c | 6a | 6b   | 6c       | 7a       | 7b        | 8    | 9  | 10  | 11     | z  |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|-----|-----|----|----|------|----------|----------|-----------|------|----|-----|--------|----|
| 1          | 13       | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4          |   |     |     |    |    |      |          |          |           |      | 2  |     | 2      |    |
| 2          | 1        | AF<br>14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .EA<br>2   |   |     |     | AF | EA |      |          | 3        |           | AREA | `1 |     | 1      |    |
| 3          | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A<br>3     |   |     |     |    | в  |      |          | 16       |           | С    | 1  |     | 1      |    |
| 4          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 1 |     |     |    |    |      |          |          | 2         |      | 1  |     |        |    |
| 5a         | 1        | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3          |   |     |     |    | 1  |      |          | 1        |           |      | 6  |     |        |    |
| 5b         |          | AR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EA         |   | A   | REA |    |    | ARE/ | 7        |          |           | AREA |    |     |        |    |
| 5c         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D          |   |     | Е   |    |    | F    |          |          |           | G    |    |     | A      |    |
| 6 <b>a</b> |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1          |   |     |     |    |    |      |          | -        |           |      |    |     | AREA   |    |
| 6b         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ·          |   | A   | REA |    |    | ARE/ | <u>`</u> |          |           | AREA |    |     | ч      |    |
| 6c         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |   |     | н   |    |    | I    |          | 1        |           | J    |    |     |        |    |
| 7a         |          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7          | 1 | 9   |     |    | 1  |      |          | 21       |           |      | 2  |     |        | [] |
| 7b         |          | State of the local division of the local div | EA         |   |     | REA |    |    | AREZ | <u> </u> |          | AREA<br>4 |      | AI | REA |        |    |
| 8          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K          |   |     | L   |    |    | M    |          |          | N         |      |    | 0   |        |    |
| 9          | 3        | l AF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EA         | 1 | 7 A | REA |    |    | AREZ |          | +        | AREA      |      | 28 | REA |        |    |
| 10         |          | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>.</u> P |   | /   | Q   |    |    | R    | -        | -        | S         |      |    | T   |        |    |
| 11         | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |   |     |     |    |    |      |          | 1        |           |      | 1  |     | -<br>5 |    |
| z          | <u>}</u> | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |   | `   |     | AR | EA | υ    |          | <u> </u> |           |      |    |     |        |    |
|            | ļ        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |   | ]   |     |    |    | []   | ]        |          |           |      |    |     |        |    |

Teacher: C-3

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Date: 3-16-71

Tallies: O, P, Q, R, S, and T: 44

ROWS

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|            | 1   | 2        | 3       | 4 | 5a     | 5b  | 5c | 6a      | 6b   | 6c | 7a | 7b        | 8    | 9        | 10  | 11   | Z |
|------------|-----|----------|---------|---|--------|-----|----|---------|------|----|----|-----------|------|----------|-----|------|---|
| ו          | 9   | 2        | 3       |   |        |     |    |         |      |    |    |           |      |          |     |      |   |
| 2          | 1   | 22<br>22 | EA<br>4 |   |        |     | AF | EA<br>1 |      |    | 8  |           | ARE/ | 2        | 1   | 3    |   |
| 3          |     |          | A<br>2  |   |        |     |    | в       |      |    | 19 |           | C    |          |     | 4    |   |
| 4          | J.  |          |         |   |        |     |    |         |      |    |    | 2         |      |          |     |      |   |
| 5a         | 1   | 3        | 6       | ı |        |     |    |         |      |    |    |           |      |          | 2   |      |   |
| 5b         |     | AF       | EA      |   | A      | REA |    |         | ARE/ | ł  |    |           | AREZ | <b>x</b> |     |      |   |
| 5c         |     |          | D       |   |        | E   |    |         | F    |    |    |           | G    |          |     | A    |   |
| 6 <b>a</b> | 1   |          | 1       | Ì |        |     |    |         |      |    | 1  |           |      | 1        |     | AREA |   |
| 6b         |     | 3        |         |   | A      | REA |    |         | ARE/ | À. |    |           | AREA | <b>.</b> |     | Ч    |   |
| 6c         |     |          |         |   |        | н   |    |         | I.   |    |    |           | J    |          |     |      |   |
| . 7a       | 1   | 4        | 10      |   | 14     |     |    | 3       | 3    |    | 25 |           |      | 1        |     |      |   |
| 7b         | 1   | AF       | EA      |   | A<br>1 | REA |    |         | AREZ | Ŧ  |    | AREA<br>9 |      | AI       | REA | 1    |   |
| 8          |     |          | K       |   | 1      | L   |    |         | М    |    |    | N         |      |          | 0   |      |   |
| 9          | , 1 | 2AF      | EA      |   | A      | REA |    |         | AREZ | ł  |    | AREA      |      | AI       | REA |      |   |
| 10         |     |          | ₽       |   |        | Q   |    |         | R    |    | 1  | S         | 1    |          | Т   | 1    |   |
| 11         |     | 2        |         | 1 | 2      |     |    |         |      |    | 3  |           |      | 1        |     | 5    |   |
| z          |     |          |         |   |        |     | AR | EA      | υ    |    |    |           |      |          |     |      |   |
|            |     |          |         |   |        |     |    | •••••   |      |    |    |           |      |          |     |      |   |

Teacher: C-3

Date: 4-2-71

Tallies: O, P, Q, R, S, and T: 6

ROWS

54

|            | 1        | 2               | 3      | 4 | 5a     | 5b  | 5c | 6a | 6b   | 6c           | 7a | 7b        | 8    | 9               | 10  | 11     | Z |
|------------|----------|-----------------|--------|---|--------|-----|----|----|------|--------------|----|-----------|------|-----------------|-----|--------|---|
| 1          | 17       | 4               | 4      |   |        |     |    |    |      |              |    |           |      |                 |     |        |   |
| 2          |          | 8 <sup>AF</sup> | EA     |   | 1      |     | AF | EA |      |              | 12 |           | AREA | 1               |     | 4      |   |
| 3          |          |                 | A<br>2 |   |        |     |    | в  |      |              | 18 |           | С    |                 |     | 4      |   |
| 4          | - 2      |                 |        | 4 |        |     |    |    |      |              |    | 1         |      |                 |     |        |   |
| 5a         | 5        | 4               |        |   |        |     |    |    |      |              |    |           |      | 1               |     |        |   |
| 5b         |          | AF              | EA     |   | A      | REA |    |    | ARE/ | Ŧ            |    |           | AREA | <b>L</b>        |     |        |   |
| 5c         |          |                 | D      |   |        | Е   |    |    | F    |              |    |           | G    |                 |     | Al     |   |
| 6 <b>a</b> |          |                 | 1      |   |        |     |    |    |      |              |    |           |      |                 |     | AREA   |   |
| 6b         |          |                 |        |   | A      | REA |    |    | ARE2 | <del>)</del> |    |           | AREA | <b>x</b>        |     | G      |   |
| 6 <b>c</b> |          |                 |        |   |        | н   | 0  |    | I    |              |    |           | J    |                 |     |        |   |
| 7a         | 1        | 8               | 10     |   | 9      |     |    | 1  |      |              | 34 |           | 1    | 2               |     |        |   |
| 7b         |          | AF              | EA     |   | A<br>1 | RĒA |    |    | ARE  | ł            |    | AREA<br>1 |      |                 | REA |        |   |
| 8          | 1        |                 | K      |   |        | L   |    |    | М    |              |    | N         | 1    |                 | 0   |        |   |
| 9          |          | AR              | EA 2   |   | 1 A    | REA |    |    | AREZ | A            |    | AREA      |      | 8 <sup>AI</sup> | REA |        |   |
| 10         |          |                 | Р      |   |        | Q   |    |    | R    |              |    | S         |      |                 | т   |        |   |
| 11         | 1        |                 | 4      |   |        |     |    |    |      |              | 2  |           |      |                 |     | 8      |   |
| z          |          |                 |        |   |        |     | AR | EA | υ    |              |    |           |      |                 |     |        |   |
|            | <b> </b> |                 |        |   |        |     |    |    |      |              |    |           |      | -               |     | ······ |   |

Teacher: C-3

Date: 5-4-71

Tallies: O, P, Q, R, S, and T: 14

4

ROWS

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|     | 1  | 2       | 3       | 4 | 5a     | 5b  | 5c | 6a | 6b   | 6c | 7a | 7b         | 8    | 9          | 10  | 11   | Z  |
|-----|----|---------|---------|---|--------|-----|----|----|------|----|----|------------|------|------------|-----|------|----|
| l   | 30 | 1       | 4       | 3 |        |     |    |    |      |    |    |            |      | 2          |     |      |    |
| 2   |    | 」<br>AF | EA      |   |        |     | AF | EA |      |    | 2  |            | ARE/ | 7          |     | 4    |    |
| 3   |    |         | Â       |   |        |     |    | в  |      |    | 10 | 5          | с    |            |     |      | .1 |
| 4   |    |         |         |   |        |     |    |    |      |    |    | 13         |      |            |     |      |    |
| 5a  | 5  | 4       | 4       | 5 |        |     |    |    |      |    |    |            |      |            |     | 1    |    |
| .5b |    | AF      | EA      |   | A      | REA |    |    | ARE/ | Ą  |    |            | AREA | <b>`</b>   |     |      |    |
| 5c  |    | -       | D       |   |        | E   |    |    | F    |    |    |            | G    |            |     | Al   |    |
| 6a  |    |         |         | _ |        |     |    |    |      |    | ]  |            |      |            |     | AREA |    |
| 6b  |    |         |         |   | A      | REA |    |    | ARE  | À  | 1  |            | AREZ | <b>x</b> . |     |      |    |
| 6c  |    |         |         |   |        | н   |    |    | I    |    |    |            | J    |            |     |      |    |
| 7a  | 2  |         | 1       | 2 | 13     |     |    |    |      |    | 2  | 7          |      |            |     |      |    |
| 7b  | 5  | AF      | EA<br>3 |   | A<br>5 | REA |    |    | AREZ | A  |    | AREA<br>23 |      | AI         | REA |      |    |
| 8   |    |         | K       |   |        | L.  |    |    | М    |    |    | N          |      |            | 0   |      |    |
| 9   |    | AF      | EA      | 1 | lA     | REA |    |    | AREZ | A  |    | AREA       |      | 141        | REA |      |    |
| 10  |    |         | P       |   |        | Q   |    |    | R    |    |    | S          |      |            | т   |      |    |
| 11  |    | 1       | 3       | 1 |        |     |    |    |      |    |    |            |      |            |     | 6    |    |
| Z   |    |         |         |   |        | •   | AR | EA | υ    |    |    |            |      |            |     |      |    |

Teacher: C-4

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Date: 3-26-71

Tallies: O, P, Q, R, S, and T: 3

ROWS

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|            | 1  | 2       | 3       | 4  | 5a     | 5b  | 5c | 6a | 6b        | 6c | 7a | 7b         | 8    | 9              | 10  | 11      | Z |
|------------|----|---------|---------|----|--------|-----|----|----|-----------|----|----|------------|------|----------------|-----|---------|---|
| ı          | 19 | 4       | 6       | 1  |        |     |    |    |           |    |    |            |      | 2              |     | 2       |   |
| 2          | 1  | AF<br>5 | EA<br>1 |    |        |     | AF | EA | 1         |    | 3  |            | ARE/ | <sup>^</sup> 2 |     | 1       |   |
| 3          |    |         | A<br>1  |    |        |     |    | в  |           |    | 11 |            | C    |                |     |         |   |
| 4          |    |         |         |    |        |     |    |    |           |    |    | 8          |      |                |     |         |   |
| 5a         | 4  | 2       | 2       | 4  |        |     |    |    |           |    |    |            |      | 1              |     |         |   |
| 5b         |    | AR      | EA      |    | A      | REA |    |    | ARE       | A  |    |            | AREA | A              |     |         |   |
| 5c         |    |         | D       |    |        | Е   |    |    | F         |    |    |            | G    |                |     | A       |   |
| 6 <b>a</b> |    |         |         |    |        |     |    | 1  |           |    |    |            |      |                |     | AREA    |   |
| 6Ъ         |    | 1       |         |    | A      | REA |    |    | ARE2<br>1 | Ą  |    |            | AREZ | 1              |     | F       |   |
| 6 <b>c</b> |    |         |         |    |        | н   |    |    | I         |    |    |            | J    |                |     |         |   |
| 7a         | 2  | 1       |         | 1  | 8      |     |    |    |           |    | 20 |            |      |                |     | 1       |   |
| 7b         | 3  | AF      | EA      | 2  | A<br>3 | REA |    |    | AREZ      | A  |    | AREA<br>14 |      | Al<br>2        | REA |         |   |
| 8          |    | 1       | K       |    |        | L   |    |    | М         |    |    | N          |      |                | 0   |         | - |
| 9          | 5  | AR      | EA      |    | 2 A    | REA |    | 2  | AREZ      | 7  |    | AREA       | 1    | 101            | REA |         | 1 |
| 10         |    |         | P       |    |        | Q   |    |    | R         |    |    | S          |      |                | Т   |         |   |
| 11         |    |         | 2       | 1  |        |     |    |    | 1         |    |    |            |      | 3              |     | _<br>15 |   |
| z          |    |         |         |    |        |     | AR | EA | υ         |    |    |            |      |                |     |         |   |
| 1          |    |         |         | Lk |        | L   |    |    | L         |    |    |            |      |                |     | 0       |   |

Teacher: C-4

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Date: 4-7-71

Tallies: O, P, Q, R, S, and T: 23

ROWS

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|            | 1 | 2        | 3       | 4 | 5a                                    | 5b  | 5c | 6a | 6b   | 6c | 7a | 7b        | 8          | 9        | 10  | 11  | Z |
|------------|---|----------|---------|---|---------------------------------------|-----|----|----|------|----|----|-----------|------------|----------|-----|-----|---|
| 1.         | 8 | 5        | 2       | 1 |                                       |     |    |    | -    |    |    |           |            | 1        |     |     |   |
| 2          |   | AR<br>13 | EA<br>2 |   |                                       |     | AF | EA |      |    | 4  |           | ARE7       | 3        |     | 3   |   |
| З          |   |          | А       |   |                                       |     |    | R  | Ŷ    |    | 16 |           | С          |          |     |     |   |
| 4          |   |          |         |   |                                       |     |    |    |      |    |    | 9         |            |          |     |     |   |
| 5a         | 4 | 4        | 2       | 4 |                                       |     |    |    |      |    | •  |           |            |          |     |     |   |
| 5b         |   | AF       | EA      |   | A                                     | REA |    |    | ARE  | ł  |    |           | AREA       |          |     |     |   |
| 5c         |   |          | D       |   |                                       | Е   |    |    | F    |    |    |           | G          | <u>.</u> |     | AI  |   |
| 6 <b>a</b> | 1 |          |         | 1 |                                       |     |    |    |      |    |    |           |            |          |     | REA |   |
| 6b         |   |          |         |   | A                                     | REA |    |    | ARE  | ł  |    |           | AREA       | •        |     | G   |   |
| 6c         |   |          |         |   |                                       | н   |    |    | I    |    |    |           | J          |          |     |     |   |
| 7a         |   | 7        | 9       | 1 | 8                                     |     |    | 1  |      |    | 36 |           |            |          |     |     |   |
| 7b         | 1 | AF       | EA<br>I |   |                                       | REA |    |    | AREZ | 7  |    | AREA<br>5 |            | Al       | REA |     |   |
| 8          | ± |          | ĸ       |   |                                       | Ŀ   |    |    | М    |    |    | N         |            |          | 0   |     |   |
| 9          | 3 | AF       | EA      |   | ı A                                   | REA |    |    | AREZ | 7  |    | AREA      |            | 3 AI     | REA |     |   |
| 10         |   |          | P       |   |                                       | Q   |    |    | R    |    |    | S         |            |          | Т   |     |   |
| 11         |   |          | 2       |   | · · · · · · · · · · · · · · · · · · · |     |    |    |      |    |    |           |            |          |     | 19  |   |
| Z          |   |          |         |   |                                       |     | AR | EA | υ    |    |    |           |            |          |     |     |   |
|            | i |          | I       |   |                                       |     |    | L  |      |    | L  |           | ۶ <u> </u> |          |     | 4   |   |

Teacher: C-4

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Date: 5-4-71

Tallies: O, P, Q, R, S, and T: 7

ROWS

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|            | 1 | 2       | 3  | 4 | 5a       | 5b  | 5c | 6a | 6b   | 6c           | 7a | 7b        | 8    | 9                                           | 10  | 11   | Z |
|------------|---|---------|----|---|----------|-----|----|----|------|--------------|----|-----------|------|---------------------------------------------|-----|------|---|
| 1          | 9 | 6       | 2  |   |          |     |    |    |      |              | 2  |           |      |                                             |     |      |   |
| 2          |   | AF<br>6 | EA |   |          |     | AF | EA |      |              | 15 |           | AREA | 7                                           |     |      |   |
| 3          |   |         | А  |   |          |     | ŕ  | В  |      |              | .7 |           | С    |                                             |     |      |   |
| 4          |   |         |    |   |          |     |    |    |      |              |    | 1         |      |                                             |     |      |   |
| 5a         | 3 | 7       |    | 1 |          |     |    | 1  |      |              | 8  | · · · ·   |      | 1                                           |     |      |   |
| -<br>5b    |   | AR      | EA |   | A        | REA |    |    | ARE  | ł            |    |           | AREA | <u>ــــــــــــــــــــــــــــــــــــ</u> |     |      |   |
| 5c         |   |         | D  |   |          | Е   |    |    | F    |              |    |           | G    |                                             |     | A    |   |
| 6 <b>a</b> | 2 | 1       |    |   |          |     |    | 1  | 1    |              | 3  |           |      |                                             |     | AREA |   |
| 6b         | Ω |         |    |   | A        | REA |    |    | ARE2 | <del>y</del> |    |           | AREA |                                             |     | D L  |   |
| 6c         |   |         |    |   |          | Н   |    |    | I    |              |    |           | J    |                                             |     |      |   |
| 7a         | 1 | 2       | 3  |   | 18       |     |    | 6  |      |              | 67 |           | 1    |                                             |     | 3    |   |
| 7b         |   | AF      | EA |   | A<br>1   | REA |    |    | ARE  | A            |    | AREA<br>2 |      | AI                                          | REÀ |      |   |
| 8          |   | 1       | K  |   |          | L   |    |    | M    |              |    | N         | 1    |                                             | 0   |      |   |
| 9          |   | AF      | EA |   | <u>₽</u> | REA |    |    | AREZ | Ą            |    | AREA      |      | 2 A I                                       | REA |      |   |
| 10         |   |         | P  |   |          | Q   |    |    | R    |              |    | Ś         |      |                                             | т   |      |   |
| 11         |   | 1       | 2  |   |          |     |    |    |      |              |    |           |      |                                             |     | 2    |   |
| Z          |   |         |    |   |          |     | AR | EA | υ    |              |    |           |      |                                             |     |      |   |

Teacher: C-5

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Date: 3-26-71

Tallies: O, P, Q, R, S, and T: 3

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|            | 1  | . 2             | 3       | 4         | 5a  | 5b        | 5c | 6a | 6b        | 6c        | 7a | 7b        | 8    | 9   | 10  | 11   | Z |
|------------|----|-----------------|---------|-----------|-----|-----------|----|----|-----------|-----------|----|-----------|------|-----|-----|------|---|
| ı          | 10 | 2               |         |           |     |           |    |    |           |           | 2  |           |      |     |     |      |   |
| 2          | 1  | 9 <sup>AR</sup> | EA<br>4 |           |     |           | AF | EA |           |           | 5  |           | ARÉA | 1   |     |      |   |
| 3          | 1  |                 | A       |           |     |           |    | В  |           |           | 15 |           | С    |     |     |      |   |
| 4          |    |                 |         |           |     |           |    |    |           |           |    | 2         |      |     |     |      |   |
| 5a         | 1  | 2               | 2       |           |     |           |    |    |           |           | 1  |           |      | 1   |     |      |   |
| 5b         |    | AF              | EA      |           | A   | REA       |    |    | ARE       | ł         |    |           | AREA |     |     |      |   |
| 5c         |    |                 | D       |           |     | Е         |    |    | F         |           |    |           | G    |     |     | A    | · |
| 6 <b>a</b> |    |                 | 1       |           |     |           |    |    |           |           |    |           |      |     |     | AREA |   |
| 6b         |    | y               |         |           | A   | REA       | 1  |    | AREA      | <u>}.</u> |    |           | AREA |     |     | G    |   |
| 6c         |    |                 |         |           |     | H         |    |    | I         |           |    |           | J    |     |     |      |   |
| 7a         |    |                 | 11      | 2         | 5   | $\square$ |    |    |           |           | 76 |           |      | 3   |     |      |   |
| 7b         |    | AF<br>1         | EA<br>1 |           | A   | REA       |    |    | AREA      | 4         |    | AREA<br>4 |      | AI  | REA |      |   |
| 8          |    | 1               | K       |           |     | L         |    |    | М         |           |    | N         | 2    | 1   | 0   |      |   |
| 9          |    | AR              | EP2     |           | 1 A | REA       |    |    | AREZ      | Α         |    | AREA      | 2    | 8AJ | REA |      |   |
| 10         |    |                 | Р       |           |     | Q ·       |    |    | R         |           |    | S         |      |     | Т   |      |   |
| 11         |    | 1               |         | $\square$ |     |           |    |    | $\square$ |           | 1  |           |      |     | · · | 4    |   |
| z          |    |                 |         |           |     |           | AF | EA | U         |           |    |           |      |     |     |      |   |
|            |    |                 | ·       |           |     |           |    |    |           |           |    |           |      |     |     |      |   |

Teacher: C-5

Date: 4-8-71

Tallies: O, P, Q, R, S, and T: 17

-12

ROWS

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|            | 1  | 2        | 3      | 4 | 5a     | 5b  | 5c | 6 <b>a</b> | 6b   | 6c             | 7a | 7b         | 8    | 9    | 10   | 11   | Z |
|------------|----|----------|--------|---|--------|-----|----|------------|------|----------------|----|------------|------|------|------|------|---|
| 1          | 10 | 1        | 5      |   |        |     |    |            |      |                |    |            |      |      |      | 1    |   |
| 2          |    | AF<br>14 | EA     |   |        |     | AF | EA         |      |                | 9  |            | AREA | L    |      |      |   |
| 3          | 1  |          | A<br>8 |   |        |     |    | в          |      |                | 8  |            | С    |      |      | 2    |   |
| 4          |    |          |        | 2 |        |     |    |            |      |                |    | 10         |      |      |      |      |   |
| 5a         | 4  | 3        | 2      |   | 1      |     |    |            |      |                | 2  |            |      |      |      |      |   |
| 5b         |    | AR       | EA     |   | A      | REA |    |            | ARE  | Ŧ              |    |            | AREA |      |      |      |   |
| 5c         |    |          | D      |   |        | Е   | ·  |            | F    |                |    |            | G    |      |      | A    |   |
| 6 <b>a</b> |    |          |        |   |        |     |    |            |      |                |    |            |      |      |      | REAH |   |
| 6b         |    |          |        |   | A      | REA |    |            | ARE/ | <del>)</del> . |    |            | AREA |      |      | G    |   |
| 6c         |    |          |        |   |        | н   |    |            | I    |                |    |            | J    | ·    |      |      |   |
| 7a         | 3  | 6        | 2      | 1 | 8      |     |    | 1          |      |                | 43 |            | 2    | 2    |      | 1    |   |
| 7b         |    | AF       | EA     |   | A<br>4 | REA |    |            | AREZ | A              |    | AREA<br>10 |      | AI   | R.EA |      |   |
| 8          | 1  |          | K      |   |        | Ŀ   |    |            | М    |                |    | N          | 2    |      | 0    | 1    |   |
| 9          |    | AR       | EA     |   | 2A     | REA |    |            | AREZ | 7              | 2  | AREA       |      | 5 AI | REA  |      | 1 |
| 1.0        |    |          | P      |   |        | Q   |    |            | R    |                |    | S          |      |      | т    |      |   |
| 11         |    |          | 1      | 1 |        |     |    |            |      |                | 3  |            |      | 1    |      | 3    |   |
| Z          |    |          |        |   |        |     | AR | EA         | υ    |                |    |            |      |      |      | ć    |   |

Teacher: C-5

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Date: 5-6-71

Tallies: O, P, Q, R, S, and T: 11

ROWS

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| -          | 1  | 2                | 3       | 4 | 5a     | 5b  | 5c | 6a | 6b   | 6c | 7a | 7b         | 8    | 9            | 10  | 11   | Z        |
|------------|----|------------------|---------|---|--------|-----|----|----|------|----|----|------------|------|--------------|-----|------|----------|
| 1          | 29 | 4                | 3       | 1 |        |     |    |    |      |    |    |            |      | 2            |     |      |          |
| 2          |    | 12 <sup>AF</sup> | EA<br>2 |   |        |     | AF | EA |      |    | 1  | 1          | ARE  | 7            | 1   | 2    |          |
| 3          |    | l                | А       |   |        |     |    | В  |      |    | 14 |            | С    |              |     | 1    |          |
| 4          |    |                  |         | 4 |        |     |    |    |      |    |    | 3          |      |              |     | 2    |          |
| 5a         | 7  | l                | 5       | 2 | 2      |     |    | 1  |      |    |    |            |      | 1            |     |      |          |
| 5b         |    | AF               | EA      |   | A      | REA |    |    | ARE  | Ą  |    |            | AREA |              |     |      |          |
| 5c         |    |                  | D       |   |        | Е   |    |    | F    |    |    | •          | G    |              | ,   | A    |          |
| 6 <b>a</b> | 2  |                  |         | - |        |     |    | 1  | ,    |    |    |            |      | 1            |     | AREA |          |
| 6b         |    |                  |         |   | A      | REA |    |    | ARE2 | Ą. |    |            | AREZ | <u>.</u>     |     | - C  | Γ        |
| 6c         |    |                  |         |   |        | Н   |    |    | I    |    |    |            | J    |              | Ì   |      |          |
| 7a         |    |                  | 3       | 1 | 9      |     |    | 2  |      |    | 18 |            | 1    |              |     |      |          |
| 7b         |    | AF               | EA<br>1 |   | A<br>2 | REA |    | 1  | AREZ | A  |    | AREA<br>15 | 1    | A<br>1       | REA |      |          |
| 8          |    |                  | K       | 1 | 1      | Ŀ   |    |    | M    |    | _  | N          | 3    |              | 0   |      |          |
| 9          | 1  | AF               | EA      |   | 4 A    | REA |    |    | ARE  | 7  |    | AREA       |      | 1 <b>A</b> 1 | REA |      | <u>}</u> |
| 1.0        |    |                  | P<br>1  |   |        | Q   |    |    | R    |    |    | S          |      |              | Т   |      |          |
| 11         |    |                  |         |   |        |     |    |    |      |    | 3  | 2          |      |              |     | - 1  |          |
| z          |    |                  |         |   |        |     | AR | EA | υ    |    |    |            |      |              |     |      |          |

Teacher: B-1

Date: 3-25-71

Tallies: O, P, Q, R, S, and T: 20

ROWS

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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -          | 1  | 2               | 3       | 4 | 5a             | 5b  | 5c | 6a | 6b   | 6c           | 7a | 7b   | 8    | 9    | 10  | 11  | Z |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----|-----------------|---------|---|----------------|-----|----|----|------|--------------|----|------|------|------|-----|-----|---|
| 3 $3$ $3$ $1$ $B$ $8$ $C$ $1$ 4 $6$ $1$ $1$ $3$ $1$ $1$ $1$ 5a $4$ $4$ $1$ $2$ $3$ $1$ $1$ $1$ $1$ 5b $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $1$ $1$ $1$ 5c $D$ $E$ $F$ $G$ $P$ $P$ 6a $1$ $1$ $REA$ $AREA$ $AREA$ $REA$ $Q$ 6b $AREA$ $AREA$ $AREA$ $AREA$ $Q$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ı          | 39 | 1               | 3       | 3 | 1              |     |    | 1  |      |              |    |      |      | 2    |     | 2   |   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2          |    | 8 <sup>AF</sup> | EA      |   |                |     | AF | EA |      |              | 4  |      | AREA | 1    | 1   | 1   |   |
| 5a $4$ $4$ $1$ $2$ $3$ $area$ $area$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3          |    |                 | જે      |   |                |     |    | в  |      |              | 8  |      | C    |      |     | 1   |   |
| 44123111115b $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ 5cDEFG $P$ $P$ $P$ $P$ $P$ 6a11 $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $P$ 6b $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $G$ 6c $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $G$ 7a $3$ $1$ $8$ $2$ $23$ $1$ $1$ 7b $AFEA$ $AREA$ $AREA$ $AREA$ $AREA$ $10$ 8 $K$ $L$ $M$ $N$ $0$ $2$ 9 $3$ $1AFEA$ $2AREA$ $AREA$ $AREA$ $AREA$ 10 $P$ $Q$ $R$ $S$ $T$ $T$ 11 $2$ $1$ $-1$ $-1$ $-1$ 2 $1$ $1$ $-1$ $-1$ $-1$ 10 $P$ $Q$ $R$ $AREA$ $AREA$ 10 $P$ $Q$ $R$ $S$ $1$ 11 $2$ $1$ $-1$ $-1$ $-5$                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4          | -  |                 |         | 6 |                |     |    |    |      |              |    | 3    |      | 1 ·  |     |     |   |
| 5b       AREA       AREA       AREA       AREA       AREA       AREA       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I | 5a         | 4  | 4               | 1       | 2 | 3              |     |    | 1  |      |              |    |      | 1    | 1    |     | 1   |   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5b         |    |                 | EA<br>1 |   | 1              | REA |    |    | ARE  | Ŧ            |    |      | AREA |      |     |     |   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5c         |    |                 | D       |   |                | Е   |    |    | F    |              |    |      | G    |      | -   | A   |   |
| 6b       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I           | 6 <b>a</b> | 1  |                 |         |   |                |     |    |    |      |              |    |      |      |      |     | REA |   |
| 7a       3       1       8       2       23       1         7b       AFEA       AREA       AREA       AREA       AREA       AREA         8       K       L       M       N       0       2         9       3       1AFEA       2AREA       AREA       AREA       AREA       6AREA         10       P       Q       R       S       T       1         11       2       1       1       5       5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6b         |    |                 |         |   | A              | REA |    |    | ARE/ | <del>y</del> |    |      | AREA | A    |     | G   |   |
| 7b       3       1       8       2       23       1       1         7b       AREA       AREA       AREA       AREA       AREA       AREA       AREA       AREA       10       1         8       K       L       M       N       0       2       2       2         9       3       1AFEA       2AREA       AREA       AREA       AREA       6AREA       2         10       P       Q       R       S       T       1       1         11       1       1       2       1       5       1       5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6c         |    |                 |         |   |                | н   |    |    | I-   |              |    |      | J    |      |     |     |   |
| 7bAFEAAREAAREAAREAAREAAREAAREAAREA8KLMN2 $2$ 931AFEA2AREAAREAAREA $6$ AREA $2$ 10PQRST $1$ 1121 $1$ $2$ $2$ $1$ $5$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | , 7a       | 3  |                 | 1       |   | 8              |     |    | 2  |      |              | 23 |      |      |      |     | 1   |   |
| 8     K     L     M     N     Q     O     Q       9     3     1AFEA     2AREA     AREA     AREA     AREA     6AREA     6       10     P     Q     R     S     1     T     1       11     2     1     1     0     5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7b         |    | AF              | EA      |   | A              | REA |    |    | ARE  | A            |    | 1    |      | AI   | REA |     |   |
| 9     3     1AREA     2AREA     AREA     AREA     AREA     AREA       10     P     Q     R     S     T       11     2     1     1     5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8          |    |                 | K       |   |                | L   |    |    | М    |              |    | 7    | 2    |      | 0   | 2   |   |
| 10     P     Q     R     S     T       11     2     1     1     -     -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9          | 3  | 1 AR            | EA      |   | 2 <sup>A</sup> | REA |    |    | ARE  | 1            |    | AREA |      | 6 AI | REA |     |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10         |    |                 | P       |   |                | Q   | -  |    | R    |              |    | S    | 1    |      |     |     |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11         | 2  | 1               | 1       |   |                |     |    |    | ·    |              | 2  |      |      | 1    |     | - 5 |   |
| Z AREA U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | z          |    |                 |         |   |                |     | AR | EA | υ    |              |    |      |      |      |     |     |   |

Teacher: B-1

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Date: 4-2-71

Tallies: O, P, Q, R, S, and T: 14

ROWS

|            | 1  | 2        | 3      | 4        | 5a | 5b  | 5c | 6a | 6b        | 6c           | 7a | 7b         | 8    | 9        | 10     | 11   | Z |
|------------|----|----------|--------|----------|----|-----|----|----|-----------|--------------|----|------------|------|----------|--------|------|---|
| ı          | 24 | 3        | 3      | 2        |    |     |    |    |           |              |    |            |      | 2        | 1      |      |   |
| 2          |    | АF<br>20 | EA     |          |    |     | AF | EA |           |              |    |            | AREZ | 1        |        | 3    |   |
| 3          |    |          | A<br>2 |          |    |     |    | в  |           |              | 11 |            | С    |          |        |      |   |
| 4          |    |          |        | 5        |    |     |    |    |           |              |    | 7          |      |          |        |      |   |
| 5a         | 4  | 1        | 6      | 2        | 2  |     |    |    |           |              |    |            |      |          |        |      |   |
| 5b         |    | AR       | EA     |          | A  | REA |    |    | ARE       | ł            |    |            | AREA |          |        |      |   |
| 5c         |    |          | D      |          |    | E   |    |    | F         |              |    |            | G    |          |        | A    |   |
| 6 <b>a</b> | 1  |          |        | 1        |    |     |    | 2  |           |              |    |            |      | 2        |        | AREA |   |
| 6b         |    | 1        |        |          | A  | REA |    |    | AREZ<br>1 | <del>J</del> |    |            | AREA | <b>.</b> |        | q    |   |
| 6c         |    |          |        |          |    | н   |    |    | I         |              |    |            | J    |          |        |      |   |
| . 7a       | 1  |          |        | 1        | 6  |     |    | 1  |           |              | 7  | 1          |      |          |        | 2    |   |
| 7b         | 2  | AF       | EA     |          |    | REA |    | 2  | AREZ      | A .          |    | AREA<br>15 |      |          | REA    |      |   |
| 8          |    |          | K      | <b> </b> |    | Ľ   |    |    | М         |              |    | N          | 3    | 2        | 0      |      |   |
| 9          | 3  | AF       | EA     |          | 4A | REA |    |    | ARE       | ł            |    | AREA       | 1    | 17       | REA    |      |   |
| 10         |    |          | Р      |          |    | Q   |    | 1  | R         |              |    | S          | 1    |          | т<br>5 |      |   |
| 11         | 1  |          | 1      |          |    | [   |    |    |           |              | 1  |            |      |          |        |      |   |
| z          |    |          |        |          |    |     | AR | EA | U         |              |    |            |      |          |        |      |   |

Teacher: B-1

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Date: 4-27-71

Tallies: O, P, Q, R, S, and T: 36

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|            | <u>, 1</u> | 2                          | 3       | 4  | 5a      | 5b  | -5c | 6a      | 6b  | 6c | 7a | 7b         | 8    | 9        | 10       | 11     | Z |
|------------|------------|----------------------------|---------|----|---------|-----|-----|---------|-----|----|----|------------|------|----------|----------|--------|---|
| l          | 35         | 1                          | 1       | 8  |         |     |     |         |     |    | 1  |            |      | 1        |          |        |   |
| 2          |            | $\overset{\mathrm{AF}}{4}$ | EA      | 1  |         |     | AF  | EA<br>1 |     |    | 1  |            | AREA | 2        |          |        |   |
| 3          |            |                            | А<br>2  |    |         |     |     | в       | -   |    | 4  |            | C    |          |          | 1      |   |
| 4          |            | Ì                          |         | 10 |         |     |     |         |     |    | 1  | 13         |      |          |          | 1      |   |
| 5a         | 9          |                            | 2       | 3  |         |     |     | 1       |     |    |    |            |      | 11       | <u>}</u> |        |   |
| 5b         |            | AR                         | EA      |    | A       | REA |     |         | ARE | Ą  |    |            | AREZ | <b>x</b> |          |        |   |
| 5c         |            |                            | D       |    |         | Е   |     |         | F   |    |    |            | G.   |          |          | A      |   |
| 6 <b>a</b> |            | 1                          | 1       | 1  |         |     |     |         |     |    | 1  |            |      |          |          | AREA   |   |
| 6b         |            |                            |         |    | A       | REA |     |         | ARE | A. |    |            | AREA | <b>x</b> | 1        | L<br>L |   |
| 6 <b>c</b> |            |                            |         |    |         | н   |     |         | I   |    |    |            | J    |          |          |        |   |
| 7a         |            | 1                          |         | 1  | 4       |     |     |         |     |    | 12 |            |      |          |          |        |   |
| 7b         |            | AF                         | EA<br>1 |    | A<br>12 | REA |     | 2       | ARE | A  |    | AREA<br>39 |      | A        | REA      |        |   |
| .8         |            |                            | к       |    |         | L,  |     |         | M   |    |    | N          |      |          | 0        |        |   |
| 9          | 2          | AR                         | EA      |    | 2 A     | REA |     |         | ARE | 7  |    | AREA       |      | 14       | REA      |        |   |
| 10         | ÷          |                            | P       |    |         | Q   |     |         | R   |    |    | S          |      |          | Т        |        |   |
| 11         |            |                            |         | 1  |         |     |     |         |     |    |    |            |      |          |          | -      |   |
| Z          |            |                            |         |    |         |     | AR  | EA      | U   |    |    |            |      |          |          |        |   |

Teacher: B-2

Date: 3-23-71

Tallies: O, P, Q, R, S, and T: 15

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|            | 1        | 2               | 3       | 4        | 5a | 5b  | 5c | бa | 6b   | 6c        | 7a      | 7b         | 8        | 9  | 10  | 11  | Z |
|------------|----------|-----------------|---------|----------|----|-----|----|----|------|-----------|---------|------------|----------|----|-----|-----|---|
| 1          | 18       | 3               | 1       | 1        |    |     |    |    |      |           |         |            |          | 3  |     | 4   |   |
| 2          | 2        | AF              | EA      |          |    |     | AF | EA |      |           | 7       |            | AREA     |    |     |     |   |
| 3          | 1        | 1               | А       |          |    |     |    | B  |      |           | 2       |            | Ċ        |    |     |     |   |
| 4          |          |                 |         |          |    |     |    |    |      |           |         | 11         |          |    |     | 4   |   |
| 5a         | 4        | 2               |         | .6       |    |     |    |    |      |           | F       | 1          |          | 8  |     | 1   |   |
| 5b         |          |                 | ÉA      |          | A  | REA |    |    | ARE  | A         |         |            | AREZ     |    |     |     |   |
| 5°         |          |                 | D       |          |    | E   |    |    | F    |           |         |            | G        |    |     | A   |   |
| 6 <b>a</b> | 2        |                 |         | 1        |    |     |    |    |      |           | F       |            | <b> </b> |    |     | REA |   |
| 6b         |          |                 |         | 1        | A  | REA |    |    | ARE  | <u>}.</u> | $\prod$ |            | AREA     | þ. |     | G   |   |
| 6c         |          |                 |         |          |    | н   |    |    | I    |           | $\prod$ | 1          | J        |    |     |     |   |
| 7a         |          |                 |         | 4        | 4  |     |    |    |      |           | 24      | 4          |          |    |     |     |   |
| 7b         |          | AF              | EA<br>1 | 1        | ·  | REA |    | 3  | AREZ | A         |         | AREA<br>11 |          | AI | REA |     |   |
| 8          |          |                 | ĸ       |          |    | L.  | ļ  |    | М    |           |         | N          |          |    | 0   |     |   |
| 9          |          | 2 <sup>AR</sup> | EA      |          | 14 | REA |    |    | AREZ |           | Ħ       | AREA       |          |    | REA |     |   |
| 10         |          |                 | P       |          |    | Q   |    |    | R    |           |         | S          |          |    | т   |     |   |
| 11         |          | · · · · ·       |         | 3        |    |     |    |    |      |           |         | 1          |          | 4  |     | 5   |   |
| z          |          |                 |         |          |    |     | AR | EA | υ    |           |         |            |          |    |     |     |   |
| 2          | <u> </u> |                 |         | <u> </u> |    | ł   |    |    | l    |           |         |            |          |    |     | ł   |   |

Teacher: B-2

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Date: 4-6-71

Tallies: O, P, Q, R, S, and T: 30

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| 1  | 2                          | 3                                                                | 4                                                                                                                                                                                                                                                                                                                                                                        | 5a                                                      | 5b                                                     | 5c                                                                                                                                                                                                                                                                                                                                                                                                                                  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|    | 13<br>2<br>2<br>3<br>1     | 13 1<br>4 <sup>AF</sup><br>2 3<br>AF<br>2<br>3 2<br>3<br>4<br>AF | 13       1       1         13       1       1         4       4       3         2       3       3         2       3       3         2       3       3         2       3       3         2       3       3         3       2       3         3       2       3         1       K       1         2       AF       K         1       K       1         2       AF       EA | $     \begin{array}{c cccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 13       1       1       1       1         13       1       1       1       1       1 $4^{AR} EA$ 3       1       1       1       1 $4^{AR} EA$ 3       1       1       1       1         2       3       3       1       1       1       1         2       3       3       1       1       1       1         2       3       3       1       1       1       1         2       AR EA       AREA       AREA       1       1       1         2       D       I       E       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 | 13       1       1       1       AR       AR       AR $A^{AR} E^{A}$ 3       AR       AR       AR $A^{AR} E^{A}$ 3       AR       AR         2       3       3       1       AREA $A^{R} E^{A}$ A       AREA       AR $A^{R} E^{A}$ A       AREA       AREA $A^{R} E^{A}$ $A^{R} E^{A}$ AREA       AREA $D$ $E$ $A$ $A$ $A^{R} E^{A}$ $A^{R} E^{A}$ $A^{R} E^{A}$ $A$ $A^{R} E^{A}$ | 13       1       1       1       AR       AR       AR       EA $A^{AR} EA$ AR       AR       B       B       B         1 $A^{AR} EA$ 3       I       I       B         2       3       3       1       I       I       I         2       3       3       1       I       I       I         2       3       3       1       I       I       I         2       3       3       1       I       I       I         2       AR <ea< td="">       AREA       I       I       I       I         2       I       I       AREA       I       I       I       I         2       I       I       I       I       I       I       I       I       I         3       2       3       2       6       1       I       I       I         3       2       3       2       6       1       I       I       I         1       K       1       2       I       I       I       I       I       I       I       I       <t< td=""><td>13       1       1       1       <math>AR = A</math> <math>AR = A</math>         13       1       1       1       <math>AR = A</math> <math>AR = A</math> <math>A^{AF} = A</math> <math>A^{A}</math> <math>AR = A</math> <math>B</math> <math>AR = A</math>         1       <math>A^{A}</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math>         2       3       3       1       <math>A</math> <math>A</math> <math>A</math>         2       3       3       1       <math>A</math> <math>A</math> <math>A</math>         2       3       3       1       <math>A</math> <math>A</math> <math>A</math>         2       <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math>         2       <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math>         2       <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math>         3       2       3       2       <math>A</math> <math>A</math> <math>A</math> <math>A</math>         1       <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math>         2       <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math> <math>A</math>         1       <math>A</math> <math>A</math> <math>A</math> <math>A</math></td><td>13       1       1       1       <math>A</math> <math>A</math><td>13       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>13       1       1       1       1       1       1         <math>4^{AB} E^{A}_{A}</math>       A       AF       AF       A       4         <math>a^{AB} E^{A}_{A}</math>       A       B       14       14         <math>a^{A}_{B} E^{A}_{A}</math>       A       B       14       7         2       3       3       1       AREA       AREA       7         2       3       3       1       AREA       AREA       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       7         2       3       3       1       AREA       AREA       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       14       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       14       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       15       15         2       A       AREA       AREA       AREA       16       16         3       2       3       2       6       1       1       38       16         1       AREA       1       2       AREA       1       16       16       17</td></td></t<><td>13       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>13       1       1       1       1       1       1       1       5         <math>4^{A}</math> REA<br/><math>4^{A}</math> REA<br/><math>3^{A}</math>       AREA<br/>AREA       AREA<br/>AREA       4       AREA<br/>AREA         1       <math>6^{A}</math>       1       B       14       C       1         3       1       1       1       7       1       3         2       3       3       1       1       1       3       3         AREA<br/>AREA       AREA<br/>AREA       AREA<br/>AREA       AREA<br/>AREA       AREA<br/>AREA       14       C       1         2       3       3       1       1       1       1       3       3         4       AREA       AREA       AREA       AREA       AREA       1       3         1       D       E       F       1       G       1       1         2       AREA       AREA       AREA       AREA       AREA       1       1         3       2       3       2       6       1       1       38       2       2         1       AREA       1       AREA       1       1       38       2       1         1</td><td>13       1       1       1       1       1       5         AR EA       AR EA       AR EA       4       AREA       1       1         AR EA       B       14       C       1       1       1       1         2       3       3       1       B       14       C       1       1         2       3       3       1       B       1       1       3       1         2       3       3       1       B       1       1       3       1         2       3       3       1       B       1       1       3       1         2       3       3       1       AREA       AREA       AREA       1       3         1       AREA       AREA       AREA       AREA       1       1       1       1         1       D       I       E       I       F       I       G       1       1         2       AREA       AREA       AREA       AREA       I       1       1       1       1       1       1       1       1       1       1       1       1       1&lt;</td><td>13       1       1       1       1       1       1       5      </td></ea<> | 13       1       1       1 $AR = A$ $AR = A$ 13       1       1       1 $AR = A$ $AR = A$ $A^{AF} = A$ $A^{A}$ $AR = A$ $B$ $AR = A$ 1 $A^{A}$ $A$ $A$ $A$ $A$ 2       3       3       1 $A$ $A$ $A$ 2       3       3       1 $A$ $A$ $A$ 2       3       3       1 $A$ $A$ $A$ 2 $A$ $A$ $A$ $A$ $A$ $A$ 2 $A$ $A$ $A$ $A$ $A$ $A$ 2 $A$ $A$ $A$ $A$ $A$ $A$ 3       2       3       2 $A$ $A$ $A$ $A$ 1 $A$ $A$ $A$ $A$ $A$ $A$ $A$ 2 $A$ $A$ $A$ $A$ $A$ $A$ $A$ 1 $A$ $A$ $A$ $A$ | 13       1       1       1 $A$ <td>13       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td> <td>13       1       1       1       1       1       1         <math>4^{AB} E^{A}_{A}</math>       A       AF       AF       A       4         <math>a^{AB} E^{A}_{A}</math>       A       B       14       14         <math>a^{A}_{B} E^{A}_{A}</math>       A       B       14       7         2       3       3       1       AREA       AREA       7         2       3       3       1       AREA       AREA       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       7         2       3       3       1       AREA       AREA       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       14       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       14       14         <math>a^{AF} E^{A}_{EA}</math>       AREA       AREA       AREA       15       15         2       A       AREA       AREA       AREA       16       16         3       2       3       2       6       1       1       38       16         1       AREA       1       2       AREA       1       16       16       17</td> | 13       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 | 13       1       1       1       1       1       1 $4^{AB} E^{A}_{A}$ A       AF       AF       A       4 $a^{AB} E^{A}_{A}$ A       B       14       14 $a^{A}_{B} E^{A}_{A}$ A       B       14       7         2       3       3       1       AREA       AREA       7         2       3       3       1       AREA       AREA       14 $a^{AF} E^{A}_{EA}$ AREA       AREA       AREA       7         2       3       3       1       AREA       AREA       14 $a^{AF} E^{A}_{EA}$ AREA       AREA       AREA       14       14 $a^{AF} E^{A}_{EA}$ AREA       AREA       AREA       14       14 $a^{AF} E^{A}_{EA}$ AREA       AREA       AREA       15       15         2       A       AREA       AREA       AREA       16       16         3       2       3       2       6       1       1       38       16         1       AREA       1       2       AREA       1       16       16       17 | 13       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 | 13       1       1       1       1       1       1       1       5 $4^{A}$ REA<br>$4^{A}$ REA<br>$3^{A}$ AREA<br>AREA       AREA<br>AREA       4       AREA<br>AREA         1 $6^{A}$ 1       B       14       C       1         3       1       1       1       7       1       3         2       3       3       1       1       1       3       3         AREA<br>AREA       AREA<br>AREA       AREA<br>AREA       AREA<br>AREA       AREA<br>AREA       14       C       1         2       3       3       1       1       1       1       3       3         4       AREA       AREA       AREA       AREA       AREA       1       3         1       D       E       F       1       G       1       1         2       AREA       AREA       AREA       AREA       AREA       1       1         3       2       3       2       6       1       1       38       2       2         1       AREA       1       AREA       1       1       38       2       1         1 | 13       1       1       1       1       1       5         AR EA       AR EA       AR EA       4       AREA       1       1         AR EA       B       14       C       1       1       1       1         2       3       3       1       B       14       C       1       1         2       3       3       1       B       1       1       3       1         2       3       3       1       B       1       1       3       1         2       3       3       1       B       1       1       3       1         2       3       3       1       AREA       AREA       AREA       1       3         1       AREA       AREA       AREA       AREA       1       1       1       1         1       D       I       E       I       F       I       G       1       1         2       AREA       AREA       AREA       AREA       I       1       1       1       1       1       1       1       1       1       1       1       1       1< | 13       1       1       1       1       1       1       5 |

Teacher: B-2

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Date: 4-29-71

Tallies: O, P, Q, R, S, and T: 38

|     | 1  | 2        | 3       | 4 | 5a | 5b  |    | 6a | 6b        | 6c | 7a | 7b        | 8    | 9                                             | 10        | 11      | Z |
|-----|----|----------|---------|---|----|-----|----|----|-----------|----|----|-----------|------|-----------------------------------------------|-----------|---------|---|
| ı   | 15 | 1        | 1       | 3 |    |     |    |    |           |    | 5  |           |      |                                               |           |         |   |
| 2   |    | AF<br>31 | EA<br>2 |   |    |     | AF | EA |           |    | 4  |           | AREZ | <b>L</b>                                      |           | 1       |   |
| - 3 |    | 1        | A<br>2  |   |    |     |    | B  |           |    | 5  |           | C    |                                               |           |         |   |
| 4   |    |          |         | 8 |    |     |    |    |           |    |    | 8         |      |                                               |           |         |   |
| 5a  | 4  | 1        | 2       | 4 |    |     |    |    |           |    |    |           |      |                                               |           | 2       |   |
| 5b  |    | AF       | EA      |   | A  | REA |    |    | ARE       | Ą  |    |           | AREA | 2                                             |           |         |   |
| 5c  |    |          | D       |   |    | Е   |    |    | F         |    |    |           | G    |                                               |           | A       |   |
| 6a  |    |          | 1       |   | 1  |     |    |    |           |    |    |           |      | 1                                             | [ <u></u> | AREAN   |   |
| 6b  |    |          |         |   | A  | REA |    |    | ARE/<br>2 | Ą. | 3  |           | AREA | <u>, , , , , , , , , , , , , , , , , , , </u> |           | Ρ       |   |
| 6c  |    |          |         |   |    | н   |    |    | I         |    |    |           | J    |                                               |           |         |   |
| 7a_ | 7  | 2        |         |   | 4  |     |    |    | 3         |    | 20 |           |      | 7                                             |           |         |   |
| 7b  | 2  |          | EA      | 1 |    | REA |    | 2  | AREZ      | A  |    | AREA<br>8 | 1    | AI                                            | REA       |         |   |
| 8   | 1  |          | K       |   |    | Ŀ   |    |    | M         |    |    | N         |      | 3                                             | 0         |         |   |
| 9   |    | AR       | EAl     |   | A  | REA |    |    | AREZ      | 4  |    | AREA      |      | 2 A1                                          | REA       |         |   |
| 1.0 |    |          | P       |   |    | Q   |    |    | - R       |    |    | S         |      |                                               | Т         |         |   |
| .11 |    | 1        |         |   | 2  |     |    |    |           |    | 3  |           |      |                                               |           | -<br>15 |   |
| Z · |    |          |         |   |    |     | AR | EA | υ         |    |    |           |      |                                               |           |         |   |

Teacher: B-3

Date: 3-23-71

Tallies: O, P, Q, R, S, and T: 6

| 6 | 8 |
|---|---|
| S | 0 |

|    | 1  | 2        | 3  | 4 | 5a                 | 5b  | 5c      | 6a | 6b  | 6c      | 7 ä       | a | 7b        | 8    | 9       | 10  | 11   | Z |
|----|----|----------|----|---|--------------------|-----|---------|----|-----|---------|-----------|---|-----------|------|---------|-----|------|---|
| 1  | 44 | 1        | 2  | 4 |                    |     |         |    |     |         |           |   |           |      | 5       |     | 2    |   |
| 2  |    | AR<br>15 | EA |   |                    |     | AF      | EA |     |         |           |   |           | AREZ | l       |     | 1    |   |
| 3  |    |          | A  | 7 |                    |     | ۳.<br>۱ | B  |     |         |           | 5 |           | С    |         |     |      |   |
| 4  | i  |          |    | 2 |                    |     |         |    |     | 1       |           |   | 8         |      |         |     | 1    |   |
| 5a | 3  | 1        |    | 4 |                    |     |         |    |     |         |           |   |           |      |         |     | 1    |   |
| 5b |    | AF       | EA |   | A                  | REA |         |    | ARE | A       |           |   |           | AREA | 1       |     |      |   |
| 5c |    |          | D  |   |                    | Е   |         |    | F   |         |           |   |           | G    |         |     | A    |   |
| 6a | 1  |          |    |   |                    |     |         |    |     |         |           |   |           |      | 2       |     | AREA |   |
| 6b |    |          |    |   | A                  | REA | τ.      |    | ARE | A       |           |   |           | AREZ |         |     | G    |   |
| 60 |    |          |    |   |                    | н   |         |    | I   |         |           |   |           | J    |         |     | 1    |   |
| 7a |    |          |    | 1 | 2                  |     |         |    |     |         |           |   |           |      |         |     |      |   |
| 7b |    | AF       | EA |   | ومحصب القامس ومراد | REA |         | 2  | ARE | A       |           |   | area<br>9 |      | AI      | REA |      |   |
| 8  |    |          | K  |   |                    | L   |         |    | М   |         |           |   | N         | 10   |         | 0   |      |   |
| 9  | 5  | AF       | EA |   |                    | REA |         | 2  | ARE | A       | $\square$ |   | AREA      |      | 2 AI    | REA | 2    |   |
| 10 |    |          | P  |   |                    | Q   |         |    | R   |         |           |   | S         |      |         | т   |      |   |
| 11 | 2  |          | 2  |   |                    |     |         |    |     |         |           |   |           |      | 4       |     | - 5  |   |
| z  |    |          |    |   |                    |     | AF      | EA | υ   |         |           |   |           |      |         |     |      |   |
|    | ţ  | <u> </u> |    |   | ·                  | ·   |         |    |     | <u></u> |           |   |           |      | <u></u> |     |      |   |

Teacher: B-3

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Date: 4-6-71

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Tallies: O, P, Q, R, S, and T: 33

69

|            | 1  | 2                | 3       | 4 | 5a               | 5b  | 5c | 6a                | 6b  | 6c       | 7a                | 7b         | 8         | 9        | 10     | 11  | Z |
|------------|----|------------------|---------|---|------------------|-----|----|-------------------|-----|----------|-------------------|------------|-----------|----------|--------|-----|---|
| 1          | 37 | 2                | 2       | 2 |                  |     |    |                   |     | ;<br>    |                   |            | 5         | <u> </u> |        | 4   |   |
| 2          |    | 25 <sup>AR</sup> | EA<br>1 | 1 |                  |     | AF | EA                |     | <br>     |                   |            | AREA<br>2 | ۸<br>۱   |        | 2   |   |
| 3 -        |    |                  | А       |   |                  |     |    | В                 |     |          | 3                 |            | С         |          | :      |     |   |
| 4          |    |                  |         |   |                  |     |    |                   |     |          |                   | 5          |           |          |        |     |   |
| 5a         | 3  |                  |         |   |                  |     |    |                   |     |          |                   |            |           |          |        |     |   |
| 5b         |    | AF               | EA      |   | A                | REA |    |                   | ARE | 4        |                   |            | AREA      | A I      |        |     |   |
| 5c         |    |                  | D       |   |                  | Е   |    |                   | F   | ,<br>    |                   |            | G         |          |        | A   |   |
| 6 <b>a</b> |    |                  |         |   |                  |     |    | Ħ                 |     |          | $\prod_{i=1}^{n}$ |            |           |          |        | REA |   |
| 6b         |    | 1                |         |   | A                | REA |    | $\prod_{i=1}^{n}$ | ARE | <u>}</u> |                   |            | AREA      | 9        |        | Ъ   |   |
| 6c         |    |                  |         |   |                  | н   |    |                   | I   |          |                   |            | J         |          |        |     |   |
| 7a         | 1  |                  | 1       | 1 | 1                |     |    | T                 |     |          | 1                 |            |           |          |        |     |   |
| 7b         | 4  | AF               | EA      |   | <u></u>          | REA |    |                   | ARE | 2        |                   | AREA<br>20 |           | AI<br>1  | REA    |     |   |
| 8          |    |                  | K       |   | ,<br>            | L   |    |                   | М   |          |                   | N          |           |          | 0      |     |   |
| 9          | 7  | AF               | EA      | F | Α <sub>Γ</sub> Γ | REA |    |                   | ARE | <br>A    | 1                 | AREA       |           |          | REA    |     |   |
| 10         |    |                  | P       |   |                  | Q   |    |                   | R   |          |                   | S          |           |          | т<br>2 |     |   |
| 11         |    | 1                |         | 1 |                  |     |    |                   |     |          |                   |            |           | 4        |        | 19  |   |
| Z          |    |                  |         |   |                  |     | AF | EA                | υ   | i        |                   |            |           | <u> </u> |        |     |   |

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Teacher: B-3

Date: 4-30-71

Tallies: O, P, Q, R, S, and T: 32

ROWS

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|            | 1        | 2        | 3       | 4 | 5a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5b  | 5c | 6a | 6b   | 6c | 7a                                                                                                             | 7b        | 8    | 9        | 10      | 11   | Z |
|------------|----------|----------|---------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|------|----|----------------------------------------------------------------------------------------------------------------|-----------|------|----------|---------|------|---|
| 1          | 5        |          | 1       | 1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |    |    |      |    | 2                                                                                                              |           |      | 1        |         |      |   |
| 2          |          | AF<br>14 | EA<br>4 | 1 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | AF | EA |      |    |                                                                                                                |           | AREA | 4        | 3       | 2    |   |
| 3          |          | 1        | A       |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |    | в  |      |    | 13                                                                                                             |           | Ç    |          |         | 2    |   |
| 4          |          |          |         |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |    |    |      |    |                                                                                                                | 6         |      |          |         |      |   |
| 5a         |          | 4        | 4       |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |    |    |      |    |                                                                                                                |           | 2    |          | <br>  1 |      |   |
| 5b         |          | 1        | EA      |   | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REA |    |    | ARE  | A  |                                                                                                                |           | AREA | <b>-</b> |         |      |   |
| 5c         |          |          | D       |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E   |    |    | F    |    |                                                                                                                |           | G    |          |         | A    |   |
| 6 <b>a</b> |          |          |         |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |    |    |      |    |                                                                                                                |           |      |          |         | AREA |   |
| 6b -       |          |          |         |   | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REA |    |    | ARE  | 7  |                                                                                                                | 1         | AREA | p        |         |      |   |
| 6c         |          |          |         | [ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Н   |    |    | I    |    |                                                                                                                |           | J    |          |         |      |   |
| 7a         |          | 2        | <br>  _ | 3 | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |    |    | 1    |    | 2                                                                                                              |           |      |          |         | 2    |   |
| 7b         |          | AF<br>4  | EA      |   | and the second se | REA |    |    | AREZ | 7  | and a second | AREA<br>8 |      | AI       | REA     |      |   |
| 8          |          | 7        | K<br>l  |   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ľ   |    |    | М    |    |                                                                                                                | N         | 10   |          | 0<br>8  | 1    |   |
| 9          |          |          | EA      |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | REA |    |    | AREA | 7  |                                                                                                                | AREA      |      | IAI      | REA     |      |   |
| 10         |          | -        | Р<br>3  |   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Q   |    |    | R    |    |                                                                                                                | S         | 15   |          | Т<br>5  | 5    |   |
| 11         | 2        | 1        | 4       |   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |    | 1  |      |    | 1                                                                                                              |           | 3    | 2        | 1       | 2    |   |
| z          |          |          |         |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | AF | EA | υ    |    |                                                                                                                |           |      |          |         |      |   |
|            | <u> </u> | ·····    |         |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ·   |    | ·  | LL   |    |                                                                                                                |           |      |          |         | ·    |   |

Teacher: B-4

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Date: 3-24-71

Tallies: O, P, Q, R, S, and T: 37

ROWS

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|            | 1        | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3        | 4       | 5a       | 5b       | 5c | 6a | 6b       | 6C | 7a | 7b         | 8    | 9                                             | 10   | 11     | Z            |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------|----------|----|----|----------|----|----|------------|------|-----------------------------------------------|------|--------|--------------|
| ı          | 44       | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3        | 3       | 1        |          |    |    |          |    | 1  |            |      | 2                                             |      |        |              |
| 2          | 1        | AF<br>9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EA<br>2  |         |          |          | AF | EA |          |    | 5  |            | AREA | 2                                             | <br> | 3      |              |
| 3          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A<br>2   |         |          |          |    | в  |          | ,  | 9  |            | С    |                                               |      |        |              |
| 4          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 2       |          |          |    |    |          |    |    | 4          |      |                                               |      |        |              |
| 5a         | 7        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3        |         |          |          |    |    |          |    |    |            |      |                                               |      |        |              |
| 5b         |          | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EA       |         | A        | REA      |    |    | ARE      | A  |    |            | AREA | ŀ                                             |      |        |              |
| 5c         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D        | j j     |          | Е        |    |    | .F       |    |    |            | G    |                                               |      | A      |              |
| 6 <b>a</b> | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |         |          |          |    | H= | <u>}</u> |    |    |            |      |                                               |      | AREA   |              |
| 6b         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |         | A        | REA      |    |    | ARE/     | A  |    |            | AREA |                                               |      | G      |              |
| 6c         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |         |          | н        |    |    | I        |    |    |            | J    |                                               |      |        |              |
| 7a         | 3        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | 2       | 9        |          |    |    |          |    | 21 |            |      |                                               |      |        |              |
| 7b         | 2        | Contraction of the local division of the loc | EA       |         |          | REA      |    |    | ARE      | A  |    | AREA<br>15 |      | AI                                            | REA  |        |              |
| 8          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K        | 1       |          | L        |    |    | M        |    |    | N          |      |                                               | 0    |        |              |
| 9          |          | 1 AR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EA       |         | $ _{2}A$ | REA      |    |    | AREZ     |    |    | AREA       |      |                                               | REA  |        | <u> </u>     |
| J.O .      | -        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P        |         |          | Q        |    |    | R        |    |    | S<br>I     |      |                                               | т    |        | ; <b>}</b> ] |
| 11         | 1        | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |         |          |          |    |    |          |    |    |            |      |                                               |      |        |              |
| z          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |         |          |          | AF | EA | U        |    |    |            |      |                                               |      | ┟╌┷╶╌┤ |              |
|            | <u>⊧</u> | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u> </u> | <u></u> | <u> </u> | <u> </u> |    |    |          |    |    | <u> </u>   |      | ا <u>ــــــــــــــــــــــــــــــــــــ</u> |      |        | <u> </u>     |

Teacher: B-4

Date: 4-5-71

Tallies: O, P, Q, R, S, and T: 7

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|            | 1  | 2                                     | 3               | 4          | 5a      | 5b  | 5c | 6a      | ĠЪ   | 6c           | 7a | 7b     | 8    | 9        | 10       | 11   | Z           |
|------------|----|---------------------------------------|-----------------|------------|---------|-----|----|---------|------|--------------|----|--------|------|----------|----------|------|-------------|
| 1          | 19 |                                       | 4               |            | 2       |     |    |         |      |              |    |        |      | 7        |          |      |             |
| 2          |    | AF<br>8                               | EA<br>1         |            |         |     | AF | EA      |      | _            | 2  |        | AREA | 4        |          | 2    |             |
| З          |    | - <del> </del>                        | A               |            |         |     |    | в       |      |              | 21 |        | С    |          |          | 1    |             |
| 4          | -  |                                       |                 | 2          |         |     |    |         |      |              |    | 3      |      | 7        |          |      |             |
| 5a         | 1  | 2                                     | 8               |            | 3       |     |    |         |      |              |    |        |      | 6        |          |      |             |
| 5b         |    |                                       | EA              |            |         | REA |    |         | ARE  | ł            |    |        | AREA | 1        |          |      |             |
| - 5c       |    |                                       | D               |            |         | Е   |    |         | F    |              |    |        | G    |          |          | A    |             |
| 6 <b>a</b> | 2  | · · · · · · · · · · · · · · · · · · · | 2               |            |         |     |    |         | <br> |              | 2  | 1      |      |          |          | REA  |             |
| 6b         |    |                                       |                 |            | A       | REA |    |         | ARE  | A            |    |        | AREA | <u>}</u> |          | L C  |             |
| 6C         |    |                                       |                 |            |         | н   |    |         | I    |              |    |        | J    |          |          |      |             |
| 7a         | 5  |                                       | 4               | 7          | 9       |     |    | 4       |      |              | 8  |        | 2    |          |          |      |             |
| 7b         |    | AF                                    | EA              |            |         | REA |    |         | AREZ | <del>7</del> |    | AREA   |      | AI       | REA      |      |             |
| 8          |    |                                       | ĸ               | 7          |         | Ŀ   |    |         | M    |              |    | 8<br>N |      |          | 0        |      |             |
| 9          | 9  | AR                                    | EA,             |            | 2       | REA |    |         | ARE  |              |    | AREA   |      |          | REA      |      |             |
| 10         | 19 |                                       | P               | - <b>-</b> |         | Q   |    |         | R    | -            |    | S      |      |          | T        |      | <u>}</u> }│ |
| 11         |    |                                       | !<br>}<br> <br> |            | <u></u> |     |    |         |      |              |    |        | <br> | <br>     | <u> </u> | <br> | <b> </b>    |
| z          |    | 2                                     | 1               | 1          |         |     | AR | 1<br>EA | υ    |              |    |        |      |          |          | 4    |             |

Teacher: B-4

Date: 4-28-71

Tallies: O, P, Q, R, S, and T: 30

ROWS

|            | 1  | 2        | 3.              | 4  | 5a             | 5b  | 5c | 6a | 6b        | 6C | 7a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7b        | 8    | 9          | 10     | 11    | Z        |
|------------|----|----------|-----------------|----|----------------|-----|----|----|-----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|------------|--------|-------|----------|
| ı          | 6  | 4        | 2               | 1  |                | ÷   |    |    |           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      |            |        |       |          |
| 2          | 1  | 24<br>24 | EA<br>2         |    |                |     | AF | EA |           |    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | AREZ | <u>`</u> 3 | 1      | 5     |          |
| 3          |    |          | A               |    |                |     |    | в  |           |    | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | С    |            |        |       |          |
| 4          |    |          |                 | l  |                |     |    |    |           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2         |      |            |        |       |          |
| 5a         | 1  | 7        |                 |    |                |     |    |    |           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      |            |        |       |          |
| 5b         | 1  | AR       | EA              |    | A              | REA |    |    | ARE       | ł  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | AREA |            |        |       |          |
| 5c         |    |          | D               |    |                | Е   |    |    | F         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | G    |            |        | A     |          |
| 6 <b>a</b> |    | · · · ·  |                 |    |                |     |    |    |           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      |            |        | AREA. |          |
| 6b         | [1 |          |                 |    | A              | REA |    |    | ARE/<br>1 | f  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | AREZ |            |        | G     |          |
| 6c         |    |          |                 |    |                | н   |    |    | I         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | J    |            |        |       |          |
| - 7a       |    | 1        |                 | [] | 4              |     |    |    | 1         |    | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |      | 2          |        |       |          |
| 7b         |    | AF       | EA              | 1  |                | REA |    |    | AREZ      | ł  | The second secon | AREA<br>4 |      | AI         | REA    |       |          |
| 8          |    |          | K               |    |                | Ľ   |    |    | М         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N         | 1    |            | 0      | 1     | <b>P</b> |
| 9          | 2  | AR       | EA <sub>l</sub> |    | 2 <sup>A</sup> | REA |    |    | AREZ      | ł  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AREA      |      | 1 AI       | REA    |       |          |
| 10         |    |          | Р               |    |                | Q   |    |    | R         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S         | 1    |            | T<br>l |       |          |
| 11         | 1  | 3        | 1               |    |                |     |    |    |           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      | 1          |        | 17    |          |
| z          |    |          |                 |    |                |     | AR | EA | υ         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      |            |        |       |          |
|            |    |          |                 |    |                |     |    |    |           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      |            |        |       |          |

Teacher: B-5

Date: 3-24-71

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Tallies: O, P, Q, R, S, and T: 11

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|            | 1  | 2        | 3       | 4      | 5a                                     | 5b   | 5c | 6a | 6b   | 60         | 7a | 7b        | 8    | 9   | 10  | 11   | Z |
|------------|----|----------|---------|--------|----------------------------------------|------|----|----|------|------------|----|-----------|------|-----|-----|------|---|
| 1          | 35 | 4        | 4       | 2      | 1                                      |      |    |    |      |            |    |           |      | 3   |     | 2    |   |
| 2          |    | AF<br>15 | EA<br>1 | 1      |                                        |      | AF | EA |      |            | 12 |           | AREA | l   |     | 4    |   |
| 3          |    |          | A<br>2  |        |                                        |      |    | В  |      |            |    |           | С    |     |     | 1    |   |
| 4          |    |          |         |        |                                        |      |    |    |      |            |    | 3         |      |     |     |      |   |
| 5a         | 4  | 1        | 2       |        |                                        |      |    |    |      |            |    |           |      | 2   |     | 3    |   |
| 5b         |    | AF       | EA      |        | A                                      | REA  |    |    | ARE  | ł          |    |           | AREA | 4   |     |      |   |
| 5c         |    |          | D       |        |                                        | Е    |    |    | F    |            |    |           | G    |     |     | ·Al  |   |
| 6 <b>a</b> | 1  |          | 1       |        |                                        |      |    |    |      |            |    |           |      |     |     | REA  |   |
| 6b         |    |          |         |        | A                                      | REA  |    |    | ARE  | ł          |    |           | AREZ | •   |     | Ч    |   |
| 6c         |    |          |         |        |                                        | Н    |    |    | I    |            |    |           | J    |     |     |      |   |
| 7a         | 2  |          | 2       |        | 8                                      |      |    | 1  |      |            | 1  |           |      |     |     |      |   |
| 7b         |    | AF       | EA<br>1 |        |                                        | R.EA |    |    | ARE  | <b>A</b>   |    | AREA<br>6 |      | AI  | REA |      |   |
| 8          |    |          | K       |        |                                        | Ŀ    |    |    | М    |            |    | N         |      |     | 0   |      |   |
| 9          | 9  | l AF     | EĄ      |        | A                                      | REA  |    |    | ARE2 | <br>\<br>\ |    | AREA      |      | 121 | REA | 1    |   |
| 10         |    |          | D       |        |                                        | Q .  |    |    | R    |            |    | S         |      |     | Т   |      |   |
| 11         | 2  |          | <br>  1 |        |                                        |      |    |    |      |            | 1  |           |      | 6   |     | - 28 |   |
| Z          |    |          | ĺ       |        |                                        |      | AR | EA | υ    |            |    |           |      |     |     |      |   |
|            |    |          |         | ****** | ······································ |      |    |    |      |            |    |           |      |     | ÷   |      |   |

Teacher: B-5

Date: 4-5-71

Tallies: O, P, Q, R, S, and T: 23

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|---|---|---|---|----|----|----|----|---------------------|----|----|---|
| 1 | 2 | 3 | 4 | 5a | 5b | 5C | 6a | 6b 6c               | 7a | 7b | 8 |
|   |   |   |   |    |    |    |    |                     |    |    |   |

| -          |    |          |    |   | -y     |     |    | }  | <b>├</b> |     | 1 |   |                                       | }j   |       | -4-      |    | ~{   |  |
|------------|----|----------|----|---|--------|-----|----|----|----------|-----|---|---|---------------------------------------|------|-------|----------|----|------|--|
| 1          | 33 | 4        | 3  | 1 | 4      |     |    | 1  |          |     | - |   |                                       |      | 3     |          |    |      |  |
| 2          |    | AF<br>10 | EA |   |        |     | AF | EA |          |     |   | 8 |                                       | ARE/ | ۸<br> |          |    | 3    |  |
| 3          |    |          | А  |   |        |     |    | в  |          |     |   | 5 |                                       | С    |       |          |    |      |  |
| 4          |    |          |    |   |        |     |    |    |          |     |   |   | 5                                     |      |       |          |    |      |  |
| 5a         | 8  | 1        | 2  | 2 |        |     |    |    |          |     |   |   | -1                                    |      | 2     |          |    | 1    |  |
| 5b         |    | AF       | EA |   | . A    | REA |    |    | ARE      | ¥ Í |   |   |                                       | AREA | 4     |          |    |      |  |
| 5c         |    |          | D  |   |        | Е   |    |    | F        |     |   |   |                                       | G    |       |          |    | Al   |  |
| 6 <b>a</b> | 2  |          |    |   | 1      |     |    | 1  |          |     |   |   |                                       |      |       |          |    | AREA |  |
| 6D         |    |          |    |   | A      | REA |    |    | ARE      | ¥ . | Ī |   |                                       | AREA | •     |          |    | G    |  |
| 6c         |    |          |    |   |        | н   |    |    | I        |     |   |   |                                       | J    |       |          |    |      |  |
| 7a         | 3  |          | -  |   | 6      |     |    | 3  |          |     | 1 | 9 |                                       |      | 1     |          |    |      |  |
| 7ъ         |    | AF       | EA | 2 | A<br>2 | REA |    |    | AREZ     | 7   |   |   | AREA<br>17                            |      |       | AR       | EA |      |  |
| 8          |    |          | K  |   |        | Ŀ   |    |    | М        |     |   |   | N                                     |      |       |          | 0  |      |  |
| 9          | 3  | AR       | EA | 1 | 3 A    | REA |    |    | AREZ     | ~   | Ŧ |   | AREA                                  |      |       | AR<br>AR | EA | 1    |  |
| 10         |    |          | P  |   |        | Q   |    |    | R        |     |   |   | S                                     |      |       |          | т  |      |  |
| 11         | 4  |          |    |   |        |     |    |    |          |     |   |   |                                       |      | i     |          |    | -    |  |
| z          |    |          |    |   |        |     | AR | EA | Ū        |     |   |   |                                       |      |       |          |    |      |  |
| 1          | -} |          |    |   |        |     |    |    |          |     |   |   | · · · · · · · · · · · · · · · · · · · |      |       |          | 0  |      |  |

Teacher: B-5

Date: 4-27-71

Tallies: O, P, Q, R, S, and T: 20

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|            | 1     | 2        | 3       | 4        | 5a                       | 5b    | 5c                                    | 6a | 6b   | 6c | 7a | 7b         | 8    | 9    | 10    | 11   | Z |
|------------|-------|----------|---------|----------|--------------------------|-------|---------------------------------------|----|------|----|----|------------|------|------|-------|------|---|
| _ <b>1</b> | 34    | _2       | 1       | 2        |                          |       |                                       |    |      |    |    |            |      | _5   |       |      |   |
| 2          | 1     | AF<br>15 | EA<br>1 | 1        |                          |       | AF                                    | EA |      |    | 1  |            | AREA | • .  |       |      |   |
| 3          |       |          | A<br>3  | 3        | 1                        |       |                                       | в  |      |    | 14 |            | С    |      |       |      |   |
| 4          |       | ,        |         | 1        |                          |       |                                       |    |      |    |    | 5          |      |      |       | 1    |   |
| 5a         | 13    | 2        | 5       | 1        |                          |       |                                       |    |      |    |    |            |      |      |       |      |   |
| 5b         |       |          | EA      |          | A                        | REA   |                                       |    | ARE  | ł  |    |            | AREA |      |       |      |   |
| 5c         |       |          | D       |          |                          | E     |                                       |    | F    |    |    |            | G    |      |       | A    |   |
| 6a         |       |          | 1       |          |                          |       |                                       |    |      |    |    |            |      | 1    |       | AREA |   |
| 6b         |       | -        |         |          | A                        | REA   | · · · · · · · · · · · · · · · · · · · |    | ARE  | ł  |    |            | AREA |      | <br>  | G    |   |
| 6c         |       |          |         |          |                          | н     |                                       |    | I    |    |    |            | J    |      |       |      |   |
| 7a         | Þ==== |          | 1       | 1        | 13                       |       |                                       | 2  |      |    | 2  |            |      | <br> |       |      |   |
| 7b         |       | AF       | EA      |          | <del>مىرىمى بىر</del> ىم | REA   |                                       |    | AREA | 7  |    | AREA<br>19 |      | Al   | REA   |      |   |
| 8          |       |          | K       |          |                          | L,    |                                       |    | М    |    |    | N          |      |      | 0     |      |   |
| 9          |       | 5 AR     | EA      | 1        |                          | REA   |                                       |    | AREZ |    | 1  | AREA       |      | 20   | REA   |      |   |
| 10         |       | <u> </u> | P       |          |                          | Q     |                                       |    | R    |    |    | S          |      | 1    | Т     |      |   |
| 11         |       |          |         |          |                          |       |                                       |    |      |    |    |            |      |      |       |      |   |
| Z          |       |          |         | <b>j</b> | ,                        |       | AR                                    | EA | υ    |    |    |            |      |      |       |      |   |
|            | 1     |          |         |          |                          | ····· |                                       |    |      |    |    |            | JÅ   |      | ••••• |      |   |

Teacher: A-1

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Date: 3-22-71

Tallies: O, P, Q, R, S, and T: 33

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|              | 1  | 2  | 3              | 4 | 5a     | 5b  | 5c | .6a | 6b   | 6c | 7a | 7b         | 8    | 9       | 10  | 11   | Z |
|--------------|----|----|----------------|---|--------|-----|----|-----|------|----|----|------------|------|---------|-----|------|---|
| 1            | 26 |    | 2              |   |        | -   |    |     |      |    |    | 1          |      | 9       |     |      |   |
| 2            |    | AF | EA             | 1 |        |     | AF | EA  |      |    |    |            | AREA | 7       |     |      |   |
| 3            |    |    | 2 <sup>A</sup> |   |        |     |    | в   |      |    | 7  |            | С    |         |     |      |   |
| 4            |    |    |                | 1 |        |     |    |     |      |    |    | 7          |      | 1       |     |      |   |
| 5a           | 4  |    | 2              | 1 |        |     |    |     |      |    |    |            |      | 5       |     |      |   |
| 5b           |    | AR | EA             |   | A      | REA |    |     | ARE  | 7  |    |            | AREZ |         |     |      |   |
| 5c           |    |    | D              |   |        | Е   |    |     | F    |    |    |            | G    |         |     | A    |   |
| 6a           |    |    |                |   |        |     |    |     |      |    |    |            |      |         |     | AREA |   |
| 6b           |    |    |                |   | A      | REA |    |     | ARE  | 7  |    |            | ARE7 | L       |     | G    |   |
| 6 <b>c</b>   |    |    |                |   |        | Н   | •  |     | I    |    |    |            | J    |         |     |      |   |
| 7a           | 1  |    | 1              | 2 | 3      |     | *  |     |      |    | 21 |            |      |         |     |      |   |
| 7b           | 2  | AF | EA             | 1 | A<br>4 | REA |    |     | AREŻ | 7  |    | AREA<br>18 |      | AI<br>1 | REA |      |   |
| 8            |    |    | К<br>1         |   |        | L   |    |     | M    |    |    | N          | 5    |         | 0   |      |   |
| 9            | 5  | AF | EAl            | 3 | 6 A    | REA |    |     | AREZ | 7  |    | AREA       | 1    | 454     | REA |      |   |
| 10           |    |    | Р              |   |        | Q . |    |     | R    | ·  |    | S          |      |         | т   |      |   |
| 11           |    |    |                |   |        |     |    |     |      |    |    |            |      |         |     | -    |   |
| $\mathbf{Z}$ |    |    |                |   |        |     | AR | EA  | ប    |    |    |            |      |         |     |      |   |

Teacher: A-l

Date: 3-31-71

Tallies: O, P, Q, R, S, and T: 62

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|            | 1  | 2       | 3  | 4 · | 5 <b>a</b> | 5b  | 5c | 6a | 6b   | 6c   | 7a | 7b         | 8    | 9        | 10  | 11   | Z |
|------------|----|---------|----|-----|------------|-----|----|----|------|------|----|------------|------|----------|-----|------|---|
| 1          | 25 |         | 4  | 5   |            |     |    |    |      |      |    |            |      | 7        |     | 1    |   |
| 2          |    | AF<br>6 | EA | 1   |            |     | AF | EA |      |      | 1  |            | AREA | ìl       |     |      |   |
| 3          |    |         | А  |     |            |     |    | В  |      |      | 5  |            | С    |          |     |      |   |
| 4          |    | 1       | ,  | 1   |            |     |    | -  |      |      |    | 10         |      | 1        |     | 1    |   |
| 5a         | 13 | 1       |    | 3   |            |     |    |    |      |      |    |            |      | 1        |     |      |   |
| 5b         |    |         | EA |     | A          | REA |    |    | ARE  | Ŧ    |    |            | AREA | <u> </u> |     |      |   |
| 5c         |    |         | D  |     |            | Е   |    |    | F    |      |    |            | G    |          |     | A    |   |
| 6 <b>a</b> | 1  |         |    | Ì   |            |     |    |    |      |      |    |            |      | 1        |     | AREA |   |
| 6b         |    |         |    |     | A          | REA |    |    | ARE  | ł    |    |            | AREA |          |     | L C  |   |
| 6c         |    |         |    |     | 1          | н   |    |    | I    |      |    |            | J    |          |     |      |   |
| 7a         |    |         |    | 2   | 3          |     |    |    |      |      | 10 |            |      |          |     |      |   |
| 7b         | 1  | AF      | EA | 1   |            | REA |    |    | ARE/ | ł    |    | AREA<br>23 |      | AI       | REA |      |   |
| 8          |    |         | ĸ  |     |            | L,  |    |    | M    |      |    | N          |      |          | 0   |      |   |
| 9          | 2  | AR      | EA |     | 8A         | REA |    | 2  | ARE2 | <br> |    | AREA       |      | 3&I      | REA |      |   |
| 1.0        |    |         | P  |     |            | Q   |    |    | R    |      |    | S          |      |          | Т   |      |   |
| 11         |    |         |    | 1   | - <b></b>  |     |    |    |      |      |    | 1          |      |          |     |      |   |
| Z          |    |         |    |     |            |     | AR | EA | υ    |      |    | <u> </u>   |      |          |     |      |   |

Teacher: A-1

Date: 4-22-71

Tallies: O, P, Q, R, S, and T: 49

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|            | 1  | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3       | 4                                     | 5a             | 5b  | 5c      | 6a | 6b       | 6c | 7a | 7b                                    | 8    | 9                | 10  | 11   | Z  |
|------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------|----------------|-----|---------|----|----------|----|----|---------------------------------------|------|------------------|-----|------|----|
| 1          | 23 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5       |                                       |                |     |         |    |          |    |    |                                       |      | 2                |     |      |    |
| 2          | 3  | AF<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EA<br>6 |                                       |                |     | AF      | EA | 3        |    | 1  |                                       | AREA | Ì.               |     |      |    |
| 3          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A<br>15 |                                       |                |     |         | в  |          |    | 4  |                                       | С    |                  |     |      | 40 |
| 4          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 8                                     |                |     |         |    |          |    |    | 9                                     |      | 1                |     | 4    |    |
| 5a         | 5  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3       | 2                                     | 1              |     |         |    |          |    |    |                                       |      | 5                |     |      |    |
| 5b         |    | AF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .EA     |                                       | A              | REA | <u></u> |    | ARE      | f  |    |                                       | AREA |                  |     |      |    |
| 5c         |    | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | D -     |                                       |                | Е   |         |    | F        | Bi |    |                                       | G    |                  |     | A    |    |
| бa         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1       | -                                     |                |     |         |    | ·        |    |    |                                       |      |                  |     | AREA |    |
| 6b         |    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |                                       | A              | REA |         |    | ARE      | Ą  |    |                                       | AREZ | 1                |     | D C  |    |
| 6 <b>c</b> |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                                       |                | н   |         |    | I        |    |    |                                       | J    |                  |     |      |    |
| 7a         |    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |                                       | 2              |     |         |    |          |    | 5  |                                       |      | 3                |     |      |    |
| 7b         | 1  | State of the local division of the local div | EA      | 1                                     |                | REA |         | 1  | ARE/     | Ą  |    | AREA<br>19                            |      | Al               | REA |      |    |
| 8          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K       |                                       | 1              | L   |         |    | М        |    |    | N                                     | · 3  |                  | 0   |      |    |
| 9          | 1  | 2 <sup>AR</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EA2     |                                       | 2 <sup>A</sup> | REA |         |    | AREZ     | A  |    | AREA                                  | 1    | 2 <sup>7</sup> 1 | REA |      |    |
| 10 .       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Р       |                                       |                | Q   |         |    | R        |    |    | S                                     |      |                  | т   |      |    |
| 11         | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                                       |                |     |         |    | <u> </u> |    |    |                                       |      |                  |     | - 3  |    |
| Z          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                                       | · · · · ·      | •   | AF      | EA | υ        |    |    |                                       |      |                  |     |      |    |
|            | •  | ·····                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | · · · · · · · · · · · · · · · · · · · |                |     |         |    |          |    |    | • • • • • • • • • • • • • • • • • • • |      |                  |     | •    |    |

Teacher: A-2

Date: 3-19-71

Tallies: O, P, Q, R, S, and T: 32

ROWS

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| 1       23       2       1       6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 1  | 2  | 3  | 4 | 5a | 5b  | 5c* | ° 6a | 6b   | 6c | 7a | 7b         | :<br>8 | 9  | 10  | 11  | Z |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----|----|----|---|----|-----|-----|------|------|----|----|------------|--------|----|-----|-----|---|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1          | 23 | 2  | 1  | 6 |    |     |     | 1    |      |    |    | 2          | í      | 8  |     |     |   |
| 3 $A$ A       B       10       C       I         4       1       1       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I </td <td>2</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>AF</td> <td>EA</td> <td>·</td> <td></td> <td></td> <td></td> <td>AREA</td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2          |    | 1  |    |   |    |     | AF  | EA   | ·    |    |    |            | AREA   |    |     |     |   |
| Sa11Sa52Sa822 $area$ $area$ $area$ $area$ $area$ Sb $area$ $area$ $area$ $area$ $area$ $area$ $area$ ScDDEFG $area$ GaDEFG $area$ $area$ GaArea $area$ $area$ $area$ $area$ GaAreaArea $area$ $area$ $area$ GaAreaAreaArea $area$ $area$ GaAreaAreaArea $area$ $area$ GaAreaAreaArea $area$ $area$ GaAreaAreaAreaArea $area$ GaAreaAreaAreaArea $area$ <t< td=""><td>. 3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>в</td><td></td><td></td><td>10</td><td></td><td>С</td><td></td><td></td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | . 3        |    |    |    |   |    |     |     | в    |      |    | 10 |            | С      |    |     |     |   |
| $\circ$ $2$ $2$ $2$ $2$ $2$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4          |    |    |    | 1 |    |     |     |      |      |    |    | 5          |        | 2  |     |     |   |
| 5cDEFG6a $\square$ $\square$ $\square$ $\square$ $\square$ 6b $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ 6b $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ 6c $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ 7a $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ 7a $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ 7b $2$ $\square$ $\square$ $\square$ $\square$ $\square$ 8 $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ 9 $3$ $\square$ $\square$ $\square$ $\square$ $\square$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5a         | 8  | 1  | 2  | 2 |    |     |     |      |      |    |    |            |        |    |     |     |   |
| 6a $arrow arrow arrow$ | 5b         |    | AR | EA |   | A  | REA |     |      | ARE  | J  |    |            | AREA   | 4  |     |     |   |
| 6bAREAAREAAREAAREAC6cHIIJC7a1112227b2AFEAAREAAREAAREAAREA7b2I3AREAAREAAREA93AFEA24AREAAREAAREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5c         |    |    | D  |   |    | Е   |     |      | F    |    |    |            | G      |    |     | A   |   |
| 6bIIIIII6cHIIJI7a111222I7b2AREAAREAAREAAREA7b2I3II93AREA24AREAAREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 <b>a</b> |    |    |    |   |    |     |     |      |      |    |    |            |        |    |     | REA |   |
| 7a1112 $22$ $area$ $7a$ 1112 $area$ $area$ $area$ $7b$ $2$ $Area$ $area$ $area$ $area$ $area$ $7b$ $2$ $1$ $3$ $area$ $area$ $area$ $7b$ $2$ $1$ $3$ $area$ $area$ $area$ $8$ $K$ $1$ $M$ $M$ $N$ $4$ $9$ $3$ $area$ $area$ $area$ $area$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6b         |    |    |    |   | A  | REA |     |      | ARE  | A  |    |            | AREA   | A  |     | G   |   |
| 1 $1$ $1$ $2$ $22$ $-1$ $7b$ $2$ $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $AREA$ $2$ $1$ $3$ $AREA$ $17$ $1$ $8$ $K$ $L$ $M$ $N$ $4$ $0$ $9$ $3$ $AREA$ $2$ $4AREA$ $AREA$ $AREA$ $AREA$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6c         |    |    |    |   |    | H   |     |      | I    |    |    |            | J      |    |     |     |   |
| 7b     2     AFEA     AREA     AREA     AREA     AREA     AREA       8     K     L     M     N     0       9     3     AFEA     2     4AREA     AREA     AREA     AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7a_        | 1  | [  | 1  | 1 | 2  |     |     |      |      |    | 22 | :          |        |    |     |     |   |
| 9 $\frac{1}{3}$ AFEA 2 4AREA AREA AREA AREA AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7,b        | 2  | AF | EA |   |    | REA |     |      | AREZ | A  |    | AREA<br>17 |        |    | REA |     |   |
| AREA Z 4AREA AREA AREA AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8          |    |    |    |   |    | L   |     |      | М    |    |    | N          | 4      |    | 0   |     |   |
| 10 P Q - R S T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9          | 3  | AF | EA | 2 | 4A | REA |     |      | AREZ | 7  |    | AREA       |        | AJ | REA |     |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10         |    |    | Р  |   |    | Q   |     |      | R    |    |    | S          |        |    | Т   |     |   |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11         |    |    |    |   |    |     |     |      |      |    |    |            |        |    |     | +   |   |
| Z AREA U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Z          |    |    |    |   |    |     | AF  | EA   | υ    |    |    |            |        |    |     |     |   |

Teacher: A-2

4

Date: 3-30-71

Tallies: O, P, Q, R, S, and T: 47

ROWS

81

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|     | 1  | 2        | 3       | 4 | 5a        | 5b  | 5c | 6a | 6b   | 6c | 7a | 7b         | 8    | 9        | 10  | 11    | Z |
|-----|----|----------|---------|---|-----------|-----|----|----|------|----|----|------------|------|----------|-----|-------|---|
| 1   | 22 | 2        | 2       | 6 |           |     |    |    |      |    |    |            |      | 6        |     | 1     |   |
| 2   |    | AF<br>5  | EA      | 1 |           |     | AÌ | EA |      |    | 2  | 3          | AREA | 3        |     |       |   |
| 3   |    |          | A       | 1 |           |     |    | в  |      |    | 2  |            | С    |          |     |       |   |
| 4   |    | 2        |         | 2 |           |     |    | ;  |      |    |    | 8          |      | 1        |     |       |   |
| 5a  | 6  | 1        | 2       | 3 |           |     |    |    |      |    |    |            |      |          |     |       |   |
| 5b  |    | AF       | EA      |   | A         | REA |    |    | ARE  | f  |    |            | AREA | 1        |     |       |   |
| 5c  |    |          | D       |   |           | Е   |    |    | F    |    |    |            | G    |          |     | A     |   |
| бa  |    | ן<br>ריי |         |   |           |     |    |    |      |    |    |            |      |          |     | AREAr |   |
| 6D  |    |          |         |   | A         | REA |    |    | ARE  | f  |    |            | AREA | <u> </u> |     | D     |   |
| 6c  |    |          |         |   |           | н   |    |    | I    |    |    |            | J    |          |     |       |   |
| 7a  |    |          |         |   | 2         |     |    |    |      |    | 8  |            |      |          |     |       |   |
| 7b  |    | AR       | EA<br>1 | 1 |           | REA |    |    | ARE  | A  |    | AREA<br>25 |      | AI<br>4  | REA |       |   |
| 8   |    |          | к       |   |           | L   |    |    | М    |    |    | N          |      |          | 0   |       |   |
| 9   | 2  | AF       | EA ·    |   | 5 A       | REA |    | 2  | AREZ | 4  |    | AREA       |      | A        | REA |       |   |
| 1.0 |    |          | Ŗ       |   | <u>+-</u> | Q   |    |    | R    |    |    | S          |      |          | т   |       |   |
| 11  | 2  |          |         |   |           |     |    |    |      |    |    |            |      |          |     | 4     |   |
| Z   |    |          |         |   |           |     | AF | EA | υ    |    |    |            |      |          |     |       |   |

Teacher: A-2

Date: 4-21-71

Tallies: O, P, Q, R, S, and T: 49

ROWS

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MATRIX 37

COLUMNS

|                 | 1  | 2       | 3       | 4 | 5a     | 5b  | 5c | 6a | 6b   | 6c  | 7a | 7b         | 8    | 9               | 10  | 11   | Z |
|-----------------|----|---------|---------|---|--------|-----|----|----|------|-----|----|------------|------|-----------------|-----|------|---|
| ı               | 25 |         | 6       | 2 |        |     |    |    |      |     | 1  |            |      | 2               |     |      |   |
| 2               |    | AF<br>4 | EA      | 1 |        |     | AF | EA |      |     | 1  |            | AREA |                 |     |      |   |
| 3               | 1  | 1       | A<br>10 |   |        |     |    | В  |      |     | 12 |            | C    |                 |     | 3    |   |
| 4               |    |         |         | 4 |        |     |    |    |      |     |    | 6          |      |                 |     | 2    |   |
| 5a              | 7  | 1       | 4       | 3 | 1      |     |    |    |      |     |    |            | 1    | 2               |     |      |   |
| 5b              |    | AF      | EA      |   | A      | REA |    |    | ARE  | Ŧ   |    |            | AREA | <b>.</b>        |     |      |   |
| 5c              |    |         | D       |   |        | Е   |    |    | F    |     |    |            | G    |                 |     | A    |   |
| <sup>.</sup> 6a |    |         |         |   |        |     |    |    |      |     | 1  |            |      | 1               |     | AREA |   |
| .6b             |    |         |         |   | A      | REA |    |    | ARE  | f   |    |            | AREA |                 |     |      |   |
| 6c              |    |         |         |   |        | Н   |    |    | I    |     |    |            | J    |                 |     |      |   |
| 7a              |    |         | 2       | 1 | 11     |     |    | 1  |      |     | 7  |            |      |                 |     |      |   |
| 7b              | 1  | AF      | EA<br>2 | 1 | A<br>3 | REA |    | 1  | AREZ | Ŧ   |    | AREA<br>21 |      | AI              | REA |      |   |
| 8               |    |         | K<br>l  |   | 1      | L   |    |    | М    |     |    | N          | 4    |                 | 0   |      |   |
| 9               | 2  | AF      | EA      |   |        | REA |    |    | AREZ | 4 l |    | AREA       |      | 18 <sup>1</sup> | REA |      |   |
| 10              |    |         | P       |   |        | Q   |    |    | R    |     |    | S          |      |                 | т   |      |   |
| 11              |    | 1       | 1       |   |        |     |    |    |      |     | 1  | 2          |      | -               |     | 3    |   |
| z               |    |         |         |   |        |     | AR | EA | υ    |     |    |            |      |                 |     |      |   |
| 1               |    |         |         |   |        |     |    |    |      |     |    |            |      |                 |     |      |   |

Teacher: A-3 Date: 3-18-71 Tallies O, P, Q, R, S, and T: 23

ROWS

| -  | 1  | 2           | 3      | 4  | 5a     | 5b  | 5c | 6a      | 6b                                     | 6c           | 7a | 7b         | 8       | 9                | 10  | 11   | Z |
|----|----|-------------|--------|----|--------|-----|----|---------|----------------------------------------|--------------|----|------------|---------|------------------|-----|------|---|
| 1  | 32 | 1           | 4      | 5. |        |     |    |         |                                        |              |    |            |         | 2                |     |      |   |
| 2  | 3  | AF<br>8     | EA     | 1  |        |     | AF | EA      |                                        |              | 1  |            | ARE/    | 1                |     |      | - |
| 3  |    |             | A<br>3 |    | 11     |     |    | в       |                                        |              | 6  |            | C       |                  |     |      |   |
| 4  |    |             |        | 12 |        |     |    |         |                                        |              |    | 8          |         | 1.               |     | 3    |   |
| 5a | 3  | 2           | 1      | 6  |        |     |    |         |                                        |              |    |            |         | 3                |     |      |   |
| 5b |    | AF          | EA     |    | A      | REA |    |         | ARE                                    | ł            |    |            | AREA    | <b>\</b>         |     |      |   |
| 5c |    |             | D      |    |        | Е   |    |         | F                                      |              |    |            | G       |                  |     | Al   |   |
| 6a |    |             |        |    |        |     |    |         | }                                      |              |    |            |         |                  |     | AREA |   |
| 6b |    |             |        |    | A      | REA |    |         | ARE                                    | <del>y</del> |    |            | AREA    | 1                |     | D C  |   |
| 6c |    |             |        |    |        | H   | -  |         | I                                      |              |    |            | J       |                  |     |      |   |
| 7a | 1  |             |        |    | 4      |     |    |         |                                        |              | 7  |            |         | 2                |     |      |   |
| 7b | 1  | AF          | EA     | 1  | A<br>8 | REA |    |         | ARE                                    | A            |    | AREA<br>20 | •       | Al               | REA |      |   |
| 8  |    | 1           | K      |    | 1      | L   |    |         | M                                      |              |    | N          | 4       |                  | 0   |      |   |
| 9  | 2  | <b>j</b> AF | EA2    |    | 2 A    | REA |    |         | ARE                                    | ł            |    | AREA       | 2       | 20 <sup>A1</sup> | REA |      |   |
| 10 |    |             | P      |    |        | Q   |    |         | R                                      |              |    | S          |         |                  | т   |      |   |
| 11 |    |             |        |    |        |     |    |         |                                        |              |    | 3          |         |                  |     |      |   |
| z  |    |             |        |    |        |     | AF | EA      | υ                                      |              |    |            |         |                  |     |      |   |
|    |    |             |        |    |        | •   |    | <u></u> | ······································ | ·····        |    | <u>.</u>   | <u></u> |                  |     |      |   |

Teacher: A-3

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Date: 3-31-71

Tallies: O, P, Q, R, S, and T: 29

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|      | 1  | 2                | 3              | 4 | 5 <b>a</b> | 5b  | 5°C | 6a | 6b   | 6c | 7a | 7b         | 8    | 9  | 10  | 11   | Z |
|------|----|------------------|----------------|---|------------|-----|-----|----|------|----|----|------------|------|----|-----|------|---|
| ı]   | 10 | 3                | 1              | 2 |            |     |     |    |      |    |    |            |      | 2  |     |      |   |
| 2    |    | зI <sup>AF</sup> | EA             |   |            |     | AF  | EA | 2    |    |    | 1          | AREA | 3  |     | 4    |   |
| 3    |    |                  | 3 <sup>A</sup> |   |            |     | -   | В  |      |    | 5  |            | С    |    |     |      |   |
| .4   | 1  | -                | -              | 5 |            |     |     |    |      |    |    | 5          |      |    |     | 1    |   |
| 5a   | 4  | 2                |                | 2 | 1          |     |     |    |      |    |    |            |      | 2  |     | l    |   |
| 5b   |    | AF               | EA             |   | A          | REA |     |    | ARE  | A  |    |            | AREA | À  |     |      |   |
| 5c   |    |                  | D              |   |            | Е   |     | 8  | F    |    |    |            | G    |    |     | AI   |   |
| 6a   |    |                  |                |   |            |     |     |    | 1    |    |    |            |      |    |     | REA  |   |
| 6b   |    | l                | 1              |   | A          | REA |     |    | ARE  | À  |    |            | AREA |    |     | 19   |   |
| -6c  |    | 1                |                |   |            | H   |     |    | I    |    |    | :          | J    |    |     |      |   |
| 7a,  |    |                  |                | 1 | 4          |     |     |    |      |    |    |            |      |    |     |      |   |
| 7b - | 1  | AF               | EA<br>1        | 2 | A<br>2     | REA |     |    | AREZ | 4  |    | AREA<br>24 |      | AI | REA |      |   |
| 8    |    |                  | ĸ              |   |            | L   |     |    | M    |    |    | N          |      |    | 0   |      |   |
| 9    | 2  | AR               | EA1            |   | 5 A        | REA |     | 1  | AREZ |    |    | AREA       |      | 21 | REA |      |   |
| 10   |    |                  | P              |   |            | Q   |     |    | R    |    |    | S          |      |    | Т   |      |   |
| 11   |    | 4                |                |   |            |     |     |    |      |    |    |            |      | 3  |     | - 13 |   |
| Z    |    |                  |                |   |            |     | AF  | EA | U    |    |    |            |      |    |     |      |   |
| 1    |    |                  |                | , | ·····      |     |     |    |      |    |    | A          |      |    |     |      |   |

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Teacher: A-3

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Date: 4-22-71

Tallies: O, P, Q, R, S, and T: 30

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| -          | 1  | 2                | 3  | 4 | 5a     | 5b  | 5c  | бa | 6b        | 6c           | 7a | ,7b  | 8    | -9       | 10  | 11  | Z |
|------------|----|------------------|----|---|--------|-----|-----|----|-----------|--------------|----|------|------|----------|-----|-----|---|
| 1          | 40 | 、2               | 2  | 4 |        |     |     |    |           |              |    |      |      | 3        |     | Ţ   |   |
| 2          | 1  | 11 <sup>AF</sup> | EA |   |        |     | AF  | EA |           |              | 2  |      | ARE/ | <u>2</u> |     |     |   |
| 3 -        |    |                  | A  |   |        |     |     | В  |           |              | 8  |      | с    |          |     |     |   |
| 4          | 1  |                  |    | 4 |        |     |     |    |           |              |    | 8    |      |          |     |     |   |
| 5a         | 5  | 1                | 2  | 5 |        |     |     |    |           | `            |    |      |      |          |     |     |   |
| 5b         |    | AF               | EA |   | A      | REA |     |    | ARE       | A            |    |      | AREA |          |     |     |   |
| 5c         |    |                  | D  |   |        | E   |     |    | F         |              |    |      | G    |          |     | A   |   |
| 6 <b>a</b> |    |                  |    | - |        |     |     |    |           |              |    | 1    |      |          |     | REA |   |
| 6b         |    | 1                | 1  |   | A      | REA |     |    | ARE       | <del>A</del> |    |      | AREA | <b>`</b> |     | G   |   |
| 6c         |    |                  |    |   |        | н   |     |    | I         |              | 1  |      | J    | -        |     |     |   |
| 7a         |    |                  | 3  |   | 6      |     |     |    |           |              | 27 |      |      | 1        |     |     |   |
| 7b         |    | AF               | EA | 1 | A<br>3 | REA |     |    | AREZ<br>1 | Ą            |    | AREA | 1    | AI<br>1  | REA | 1   |   |
| 8          |    |                  | K  |   | 1      | L . |     |    | М         |              |    | N    | 2    |          | 0   |     |   |
| 9          | 5  | 2AR              | EA |   | lA     | REA |     |    | AREA      | A            |    | AREA |      | IAI      | REA |     |   |
| 10         |    |                  | P  |   |        | Q   |     |    | R         |              |    | S    |      |          | т   |     |   |
| 11         |    |                  |    |   |        |     | ``s |    |           |              |    |      |      |          |     | 1   |   |
| z          |    |                  |    | 2 |        |     | AR  | EA | υ         |              |    |      |      |          |     |     |   |

Teacher: A-4

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Date: 3-19-71

Tallies: O, P, Q, R, S, and T: 21

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|            | 1        | 2                | 3              | 4 | 5a     | 5b  | 5c | 6a | 6b     | 6c                                    | 7a       | 7b                                    | 8    | 9   | 10  | 11  | Z |
|------------|----------|------------------|----------------|---|--------|-----|----|----|--------|---------------------------------------|----------|---------------------------------------|------|-----|-----|-----|---|
| 1          | 27       | 3                | 1              | 2 |        |     |    |    |        |                                       |          |                                       |      | 2   |     |     |   |
| 2          |          | 14 <sup>AF</sup> | EA             |   |        |     | AF | EA | ,      |                                       | 1        |                                       | ARE/ | Δ.  |     | 3   |   |
| 3          |          |                  | 2 <sup>A</sup> |   |        |     |    | B  |        |                                       | 8        |                                       | С    |     |     | 1   |   |
| 4          |          |                  |                | 4 |        |     |    |    |        |                                       |          | 6                                     |      | -   |     | 1   |   |
| 5a         | 2        | 1                |                | 3 |        |     |    |    |        |                                       |          |                                       |      | 2   |     |     |   |
| 5b         |          | AR               | EA             |   | A      | REA |    |    | ARE/   | Ŧ                                     |          |                                       | AREZ | ·   |     |     |   |
| 5c         |          |                  | D              |   |        | E   |    |    | F      | · · · · · · · · · · · · · · · · · · · |          |                                       | G    |     |     | A   |   |
| 6 <b>a</b> | 1        |                  |                |   |        |     |    |    |        |                                       |          |                                       |      |     |     | REA |   |
| 6b         |          | 1                |                |   | A      | REA |    | Ì  | ARE2   | Į                                     |          |                                       | AREZ | 2   |     | D   |   |
| 6c         |          |                  |                |   | Ì      | H   |    |    | I      |                                       |          |                                       | J    |     |     |     |   |
| 7a         |          |                  | 5              | 2 | 3      |     |    |    |        |                                       | 26       |                                       |      |     |     |     |   |
| 7b         |          | AF               | EA             |   | A<br>4 | REA |    | 1  | ARE/   | A                                     | <        | AREA                                  | 1    | AJ  | REA |     |   |
| 8          |          |                  | ĸ              |   | 1      | L   |    |    | M<br>l |                                       |          | N                                     | 4    |     | 0   |     |   |
| 9          | 3        | AR               | EA             |   |        | REA |    |    | AREZ   | ł                                     |          | AREA                                  |      | 140 | REA |     |   |
| 10         |          | -                | P              |   |        | Q   |    |    | R      |                                       |          | S                                     |      |     | т   | 23  |   |
| 11         |          |                  |                |   |        |     |    |    |        |                                       | <u> </u> |                                       |      |     |     | -   |   |
| Z          |          | <u></u>          |                |   | i      |     | AR | EA | υ      |                                       |          |                                       |      |     |     |     |   |
|            | <b>↓</b> | 1                | l              |   |        |     |    |    |        |                                       | 1        | · · · · · · · · · · · · · · · · · · · |      |     | í   |     |   |

Teacher: A-4

Date: 3-29-71

Tallies: O, P, Q, R, S, and T: 15

87

| 7   | 1  | 2        | 3       | 4 | 5a  | 5b  | 5c | 6a        | 65  | 6c           | 7a | 7b         | 8    | 9    | 10  | 11   | Z |
|-----|----|----------|---------|---|-----|-----|----|-----------|-----|--------------|----|------------|------|------|-----|------|---|
| 1   | 46 | 1        | 2       | 1 |     |     |    |           | -   |              |    |            |      | 3    |     |      |   |
| 2   | 1  | AF<br>15 | EA<br>1 |   |     |     | AF | ĖΑ        |     |              | 1  |            | AREZ | X    |     | 1    |   |
| З   |    |          | A<br>2  |   |     |     |    | B         |     |              | 7  |            | C.   |      |     | 2    |   |
| 4   |    |          |         | 6 |     |     |    |           |     |              |    | 5          |      |      |     |      |   |
| 5a  | 3  |          | 2       | 3 |     |     |    |           |     |              |    |            |      |      |     |      |   |
| 5b  |    | AF       | EA      |   | A   | REA |    |           | ARE | Ŧ            |    |            | AREA | 7    |     |      |   |
| 5c  |    |          | D       |   |     | E   |    |           | F   |              |    |            | G    |      |     | Al   |   |
| 6a  | 1  |          | 1       |   | 1   |     |    |           |     |              |    |            |      | 1    |     | AREA |   |
| 6b  |    |          |         |   | A   | REA |    |           | ARE | <del>7</del> |    |            | AREA | •    |     | Ъ    |   |
| 6c  |    |          |         |   |     | н   |    |           | I   |              |    |            | J    |      |     |      |   |
| 7a  |    |          | 2       | 1 | 4   |     |    | 2         |     |              | 14 |            |      |      |     |      |   |
| 7b  |    | AF       | EA      |   | A   | REA |    |           | ARE | f            |    | AREA<br>18 |      | AI   | REA | 2    |   |
| 8   |    |          | K       |   |     | I,  |    |           | М   |              |    | N          | 2    |      | 0   |      |   |
| 9   | 3  | AR       | EA      |   | 2 A | REA |    | 9 <u></u> | ARE | <i>A</i>     |    | AREA       | 1    | - Al | REA |      |   |
| 1.0 |    |          | P       |   |     | Q   |    |           | R   |              |    | S          |      |      | Т   |      |   |
| 11  | 1  | 2        | 1       |   |     |     |    | <u></u>   |     |              | 1  |            |      | 1    |     | 18   |   |
| z   |    |          |         |   |     |     | AR | EA        | ប   |              |    |            |      |      |     |      |   |

Teacher: A-4

Date: 4-20-71

Tallies: O, P, Q, R, S, and T: 13

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88

|            | 1  | 2                | 3              | 4 | 5a | 5b  | 5c* | 6a | 6b   | 6c | 7a | 7b          | 8    | 9          | 10       | 11   | Z |
|------------|----|------------------|----------------|---|----|-----|-----|----|------|----|----|-------------|------|------------|----------|------|---|
| 1          | 12 | 1                | 2              | 2 |    |     |     |    |      |    |    |             |      |            |          |      |   |
| 2          |    | 37 <sup>AF</sup> | EA             | 2 |    |     | AF  | EA |      |    |    |             | AREA | 7          | 1        | 1    |   |
| 3 .        |    |                  | 2 <sup>A</sup> |   |    |     |     | в  |      |    | 8  |             | С    |            |          |      |   |
| 4          |    | 2                |                | 6 |    |     |     |    |      |    |    | 8           |      |            |          |      |   |
| 5a .       |    |                  |                |   |    |     |     |    |      |    |    |             |      | -          |          |      |   |
| 5b         |    | AF               | EA             |   | A  | REA |     |    | ARE  | ſ  |    |             | AREA | <b>.</b>   |          |      |   |
| 5c         |    |                  | D              |   |    | Е   |     |    | F    |    |    |             | G    |            |          | AI   |   |
| 6 <b>a</b> |    |                  |                | - |    |     |     |    |      |    |    |             |      |            |          | AREA |   |
| 6b         |    |                  |                |   | A  | REA | -   |    | ARE  | Ą  |    |             | AREA | <b>.</b> . |          |      |   |
| 6c         |    |                  |                |   |    | H   |     |    | I    |    |    |             | J    |            |          |      |   |
| 7a         |    |                  |                | 2 |    |     |     |    |      |    | 2  |             | 1    | 3          | 2        |      |   |
| 7b         | 2  | AF<br>1          | EA<br>2        | l | A  | REA |     |    | ARE  | A  |    | AREA<br>'14 |      | AI         | REA<br>2 |      |   |
| 8          |    |                  | К<br>2         | 2 |    | L   |     |    | М    |    |    | N           | 23   |            | 0<br>4   |      |   |
| 9          | 2  | AF               | EA             |   | A  | REA |     |    | AREZ | A  |    | AREA        | 1    | Al         | REA      |      |   |
| 10         |    |                  | Р<br>1         | 1 |    | Q   |     |    | r R  |    |    | S           | 9    |            | т<br>20  |      |   |
| 11         | 1  |                  |                |   |    |     |     |    |      |    |    |             |      |            |          | -    |   |
| z          |    |                  |                |   |    |     | AR  | EA | υ    |    |    |             |      |            |          |      |   |

Teacher: A-5

Date: 3-22-71

Tallies: O, P, Q, R, S, and T: 51

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|    | 1  | 2                          | 3       | 4  | 5a  | 5b  | 5c | 6a       | 6b       | 6c       | 7a    | 7b                                    | 8        | 9        | 10       | 11       | Z |
|----|----|----------------------------|---------|----|-----|-----|----|----------|----------|----------|-------|---------------------------------------|----------|----------|----------|----------|---|
| ı  | 30 | 1                          | 3       | 2  |     |     |    |          |          |          |       |                                       |          |          |          |          |   |
| 2  | 1  | $\overset{\mathrm{AF}}{4}$ | EA      |    |     |     | AF | EA       |          |          |       |                                       | AREA     | <b>L</b> |          |          |   |
| 3  |    |                            | Â       |    |     |     |    | в        |          |          | 11    |                                       | С        |          |          | 2        |   |
| 4  |    | ,                          |         | 14 |     |     |    |          |          |          |       | 8                                     |          |          | 3        | 4        |   |
| 5a | 1  | 1                          | 4       | 3  | 2   |     |    |          |          |          |       |                                       |          |          |          |          |   |
| 5b |    | AF                         | EA      |    | 2 A | REA |    |          | AREA     | <u> </u> |       |                                       | AREA     | 7        |          |          |   |
| 5c |    |                            | D       |    |     | Е   |    |          | F        |          |       |                                       | G        |          |          | A        |   |
| 6a |    |                            |         |    | 1   |     |    |          |          |          |       |                                       |          | ,        |          | AREA     |   |
| 6b |    |                            |         |    | A   | REA |    |          | AREA     | <u> </u> |       |                                       | AREA     | 1        |          | G        |   |
| 6c |    |                            |         |    |     | н   |    |          | I        |          |       |                                       | J        |          | ļ        |          |   |
| 7a |    |                            |         | 5  | 4   |     | 2  |          |          |          | 4     |                                       | 1        | 1        |          |          |   |
| 7b | 1  | AF                         | EA<br>2 |    |     | REA |    | <u> </u> | AREA     | 7        |       | AREA<br>14                            | ·        | AI<br>1  | REA      |          |   |
| 8  |    |                            | К<br>2  | 1  | 1   | L   |    |          | M        |          |       | N                                     | 20       |          | 0        |          |   |
| 9  |    | AF                         | EA      |    |     | REA |    |          | AREA     |          |       | AREA                                  |          | AI       | REA      |          |   |
| 10 |    |                            | D.      |    |     | Q   |    |          | R        |          |       | S                                     | 3        |          | т<br>2   |          |   |
| 11 |    |                            |         |    | -1  |     |    |          |          |          |       |                                       |          |          |          | 5        |   |
| z  |    |                            |         |    |     |     | AF | EA       | υ        |          |       |                                       |          |          | <u> </u> |          |   |
|    | ļ  | L                          | 1       |    |     | L   |    | 1        | <u> </u> |          | ····· | · · · · · · · · · · · · · · · · · · · | <u> </u> |          | L        | <u>.</u> |   |

Teacher: A-5

Date: 4-1-71

Tallies: O, P, Q, R, S, and T: 8

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|    | 1        | 2        | 3       | 4  | 5 <b>a</b>                             | 5b  | 5c | 6a             | 6b   | 6c | 7a | 7b             | 8    | 9        | 10   | 11    | Z |
|----|----------|----------|---------|----|----------------------------------------|-----|----|----------------|------|----|----|----------------|------|----------|------|-------|---|
| 1  | 7        |          |         | 2  | 1                                      |     |    |                |      |    |    |                | 7    |          |      |       |   |
| 2  |          | AF       | EA      |    |                                        | i v | AF | .EA            |      |    |    | 7              | AREA | <u> </u> | 2    | 1     |   |
| 3  |          |          | A<br>1  |    |                                        |     |    | в              |      |    | 3  |                | С    |          |      |       |   |
| 4  |          | 1        |         | 12 | 1                                      |     |    |                |      |    |    | 3              |      |          |      |       |   |
| 5a | 2        |          | 1       | 2  |                                        |     |    |                |      |    | 1  |                |      |          | 2    | 7     |   |
| 5b |          | AF       | EA      |    | A                                      | REA |    |                | AREA |    |    |                | AREZ | <u>,</u> |      |       |   |
| 5c |          |          | D       |    |                                        | Е   |    |                | F    |    |    |                | G    |          |      | A     |   |
| 6a |          |          |         |    |                                        |     |    |                |      |    |    |                |      |          |      | AREA  |   |
| 6b |          |          |         |    | A                                      | REA |    |                | AREA |    |    |                | AREZ | 4        |      | G     |   |
| 6c |          |          |         | 1  |                                        | H   |    |                | I    |    |    |                | J    |          |      |       |   |
| 7a |          | <u> </u> | i       | 1  |                                        |     |    |                |      |    |    |                |      | 2        |      |       |   |
| 7b |          | AF       | EA<br>1 |    | A<br>2                                 | REA |    |                | AREA |    | {  | AREA<br>32     |      |          | REA  |       |   |
| 8  |          |          | K       |    | 2                                      | L   |    | ┟┟───          | M    |    |    | <u>32</u><br>N | 36   | ╾┤╾╾╼╧╸  | 0    |       |   |
| 9  |          |          | EA      |    | 1 A                                    | REA |    | <u> - </u><br> | AREA |    |    | AREA           | []   | AI       | EA 1 |       |   |
| 10 |          | 1        | P       | [  | 1                                      | Q   |    |                | R    |    |    | S              | 6    |          | Т    | ╞┼╾╧╾ | · |
| 11 |          |          |         |    | <u></u>                                |     |    |                |      |    |    | <br>           | 0    |          | 29   |       |   |
| Z  |          |          | l       |    | ······································ |     | AF | EA             | υ    |    |    |                |      | 1        |      | 5     |   |
|    | <u> </u> | l        | l       | I  |                                        | I   |    | l              | LĹ   |    | I  | l              | []   | L        |      | L     |   |

Teacher: A-5

Date: 4-23-71

Tallies: O, P, Q, R, S, and T: 56

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