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PROFESSIONAL PERFORMANCE OF Y.M.C.A. SENIOR SECRETARIES

RELATED TO FACTORS OF THEIR

INTELLIGENCE, PERSONAL VALUES, AND INTERESTS

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Cecil Fayette McGee, A.B.

* * * *

Submitted in Partial Fulfillment of the

Requirements for the Degree of

Master of Arts

in the

Graduate Division

of the

University of Omaha

January, 1955

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C. F. M.

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CHAPTER I

THE PROBLEM AND ITS SCOPE

The Problem

The problem of selecting social service executives by government organizations and social service agencies has long been an important one. Other organizations directing the efforts of people need to know what qualities characterize successful social service executives. Social service executives administer and supervise many activities which involve the time and effort of other people. They should, therefore, be carefully selected so that the objectives of their employing organizations may be effectively and economically achieved.

The purpose of this study is to determine whether any relationship exists between performance ratings of Young Men's Christian Association Senior Secretaries and their intelligence, personal values, and interests.

Need for the Study

Mary E. Flannigan (3, p. 4) expressed the need for knowing more about the characteristics of executives in social service work. She concluded that:

> "... Agency executives must make a serious and systematic effort to secure, through selection, more competent leadership. ... Agencies must place greater emphasis upon the necessity of setting high standards of qualifications and developing more successful methods of securing leaders who measure up to those standards."

Various methods of selecting social service executives have been used. In some instances arbitrary educational and experience standards have been established and then without too much emphasis on what characteristics are necessary, people are selected who meet the standards. Selection on the basis of interviews is traditional. Interviews are sometimes held with little thought of actually measuring characteristics of applicants. No doubt, the establishment of educational and experience standards is good if carefully analyzed. Also, interviews can serve a useful purpose if properly used. There appears to be a gap in the use of objective tests in selecting sound social service executives. The purpose of this study is to help bridge the gap.

Mary E. Flannigan (3, p. 6) stated further:

"Except in the selection of professional leaders little use has been made of objective tests in the selection of group leaders. This is partly because of the reluctance of an agency to put the prospective leader through an extensive testing program since it is seeking the leader rather than the reverse."

Miss Flannigan indicated that standardized tests have been used with some success in the selection and judging of personality and interest traits for employment by industrial concerns, schools, and professional groups. She believed that hiring techniques of social service agencies can ben improved by the use of standardized tests.

Executives in government service are anxious to know more about selecting persons who supervise the work of others. From <u>Selecting Supervisors</u> (5, p. 1) conclusions are drawn that management has the responsibility to make certain that supervisors

are the very best available. Supervisors are the people who are responsible for obtaining full utilization of the workers. Workers need capable supervision if they are to perform satisfactorily. For these reasons a systematic program of supervisory selection is a necessity.

Purpose of the Study

Y.M.C.A. Senior Secretaries are engaged in a world program for the development of a Christian personality in a Christian society. Their responsibilities for the development of character for those they serve is indeed heavy. The administration and supervision of programs to attain their objectives are required. The National Council of Young Men's Christian Associations recognizes that top quality personnel are required to execute the programs. The National Council has defined a Senior Secretary as one who has completed all requirements for employment on a full time basis, as a completely qualified secretary. To secure this title and be listed by the Y.M.C.A., a person must complete his bachelor's degree from an accredited college. Thirty credit hours in specified subjects must be included or taken in graduate work. In addition to formal schooling, two years of full time employment must be served as a Junior Secretary in an accredited Y.M.C.A. Following the trial period, references are secured from six persons who have observed the work of the applicant, and upon their recommendation the title of Senior Secretary is granted.

After careful consideration of what is expected from Y.M.C.A. Senior Secretaries and the standards established by the National Council of Young Men's Christian Associations, it appears

reasonable to assume there are characteristics which could be measured by objective tests. Level of intelligence was one factor which was selected for this study. This was selected because many studies of intelligence of other occupational groups have been made, and in all occupations intelligence seems to be an important factor. The six basic interests or motives--theoretical, economic, aesthetic, social, political, and religious--as categorized by "Study of Values," seemed to be especially appropriate to Y.M.C.A. Senior Secretaries because of the nature of their work. Interests as measured by the Kuder Vocational Preference Record are considered to be important in the selection of employees for any occupational group, and it is believed it could be helpful in selecting Y.M.C.A. Senior Secretaries.

CHAPTER II

PREVIOUS INVESTIGATIONS IN THE FIELD

Much concern is being expressed as to what qualities are possessed by social service executives. How are some different from others, and are there measurable differences between successful and unsuccessful ones? Richard E. Hamlin (4) studied the problem of whether there was a relationship between job performance of a Young Men's Christian Association Adult Program Secretary and his personality as measured by "The Personality Inventory." Mr. Hamlin concluded that none of the six Bernreuter personality traits was found to have a statistically significant difference between strong, average, and weak job performance groupings of Young Men's Christian Association Program Secretaries. Mr. Hamlin (4, p. 30) did conclude:

> "An interesting combination of the traits of neurotic tendency, introversion, and confidence has been seen to have significant association to job performance in the men tested. This means that, in looking for desirable traits in an Adult Program Secretary, according to this study, one would look for a man with a combination of little neurotic tendency, little introversion tendencies, and more confidence as shown on the Bernreuter."

Mary E. Flannigan (3, p. 36) used six standardized tests measuring eighteen personality traits among successful and unsuccessful social group leaders. Miss Flannigan concludes (3, p. 36):

> "The results of this study point to several conclusions. Although leadership is not a trait of personality, and the term 'leader' cannot be applied with scientific accuracy to a specific personality type,

there are certain traits of personality that are especially desirable to those who occupy positions of leadership as outlined in the personnel qualifications by national group work agencies and by national leaders in the field of group work.

"From this study made of successful and unsuccessful group leaders, using six standardized tests, there appears to be a significant difference in the personality traits between the two groups.

"In analyzing the eighteen personality traits compositely, there is evidence that the persons comprising the successful group in this study in comparison with the individuals making up the unsuccessful group have attained a high degree of emotional maturity.

"Of the eighteen traits measured in this battery, the successful group leader could be differentiated from the unsuccessful group leader in fourteen of the traits."

The studies mentioned above compare the performance of weak and strong social service executives and group leaders in a number of traits. This study aims to compare a specialized group; i.e., Y.M.C.A. Senior Secretaries with factors of their intelligence, personal values, and interests.

The comparison of the professional performance of Y.M.C.A. Senior Secretaries and their intelligence, personal values, and interests is of interest to the National Council of Young Men's Christian Associations, as evidenced by their cooperation in the study. Other social agencies will be able to use the findings in scrutinizing their selection procedures. Government agencies and private industry interested in improving their supervisory selection programs will be able to translate the findings for use in their programs.

CHAPTER III

METHOD OF SOLUTION

The purpose of this study is to compare the professional performance ratings of Y.M.C.A. Senior Secretaries and their intelligence, personal values, and interests. This includes a determination of professional success by means of the Y.M.C.A. confidential Achievement Rating scale, measurement of intelligence by means of the Wonderlic Personnel Test, measurement of personal values with the Allport, Vernon, Lindzey "Study of Values," and measurement of interests with the Kuder Preference Record, Vocational Form CH.

This chapter discusses the procedures used in gathering the data; the measurement of the professional success of Y.M.C.A. Senior Secretaries; the measurement of intelligence, personal values, and interests; and a discussion of the comparisons of the test results with the professional success.

PROCEDURES USED IN GATHERING DATA

Definition of Senior Secretary

A Senior Secretary in the Y.M.C.A. is one who has completed all requirements for employment on a full time basis, as a completely qualified Secretary. To secure this title and be listed by the National Council of Young Men's Christian Associations, a person must complete his bachelor's degree from an accredited college. Thirty credit hours in specified subjects must be included or taken in graduate work. In addition to the formal schooling, two years of full time employment must be served as a Junior Secretary in an accredited Y.M.C.A. Following this trial period, references are secured from six persons who have observed the work of the applicant, and, upon the recommendation of these six persons, the title of Senior Secretary is granted. The term indicates professional status rather than a specific position. Senior Secretaries generally specialize in the various options that the Y.M.C.A. offers, such as Boys' Secretary, Athletic Secretary, Adult Program Secretary, et cetera.

The Subjects Used

A sample of seventy-eight Y.M.C.A. Senior Secretaries employed on a full time basis was included in this study. This means that each person included in the study has served two years or more as a full time Y.M.C.A. Secretary, thus making possible an appraisal of his work. By using only Senior Secretaries, the study includes only those on whom performance ratings were on file.

All persons in the study were rated on the standard Y.M.C.A. "Confidential Achievement Rating" scale. Each Secretary was rated by at least six persons who had observed his work for two years or more.

Procedures Used in Collecting the Data

For some time the writer has been interested in whether there are any distinctive measurable qualities of people who have supervisory positions. The problem had been discussed with several industrial leaders, but it seemed to be extremely difficult to get them to cooperate on such a study.

The writer has been associated for some time with the Omaha Central Young Men's Christian Association in a part time staff capacity in Adult Program work. The problem was discussed with the Adult Program Secretary, and he recognized the need for such a study within the Young Men's Christian Association. He offered to assist in making the resources of the organization available. He immediately corresponded with the National Council of the Young Men's Christian Association, presenting the problem. The National Council evidenced interest in the study, authorized its conduct, and offered to cooperate in every way possible.

In collecting the data, geographical regions were chosen, and then various sizes of associations from within the regions were selected. It was decided to divide the associations into three groups: those employing one to two secretaries, three to nine secretaries, and those having ten and over. Table I illustrates the grouping and where the secretaries are located.

(Table I on following page --- page 10)

YOUNG MEN'S CHRISTIAN ASSOCIATIONS GROUPED BY SIZE

1 - 2 Senior Secretary Associations

Beatrice, Nebraska Norfolk, Nebraska Hannibal, Missouri Lincoln, Nebraska Salina, Kansas Parsons, Kansas McCook, Nebraska Atchison, Kansas Pittsburg, Kansas

3 - 9 Senior Secretary Associations

Colorado Springs, Colorado Grand Rapids, Michigan Des Moines, Iowa Pensacola, Florida Hamilton, Ohio Phoenix, Arizona Stamford, Connecticut

10 and Over Senior Secretary Associations

Dallas, Texas Los Angeles, California Minneapolis, Minnesota Hartford, Connecticut Omaha, Nebraska St. Louis, Missouri Joliet, Illinois

The next step was to send a letter to each of the selected associations explaining the purposes of the study and soliciting their cooperation. When the replies came back, they were all favorable. Meanwhile, the tests had been assembled in batteries and numbered with an identifying code. The batteries were mailed to the cooperating associations, together with a covering letter giving complete instructions to the person administering the tests. Upon the return of the completed batteries of tests, they were scored and entered in tabular form.

The names of all the Senior Secretaries participating in the study were then forwarded to the National Council of Young Men's Christian Associations so that the necessary "Confidential Achievement Rating" scales could be prepared and returned. It is pertinent to note that current "Confidential Achievement Rating" scales could not be obtained on all who had been tested. Consequently, the number of cases in the study is less than originally contemplated. The original plans called for a study of one hundred cases. However, this final study covers seventy-eight cases. The "Confidential Achievement Rating" profiles for each Senior Secretary were obtained from the National Council. The National Council could not release individual ratings, but they did average the ratings on each Senior Secretary and the profile thus determined was used. There were eleven averaged ratings; they were totaled, and this total was used as the measure of professional performance for the Senior Secretary concerned. These ratings ranged from 98.9 points for a high to a low of 74.5. All Senior Secretaries were placed into one of two groups: "More Successful" or "Less Successful" on the basis of the ratings.

The mean rating for the "More Successful" group is 93.9; whereas, the "Less Successful" group has a mean rating of 84.5. Chart I shows a comparison between the mean ratings of the two groups on each item of the "Confidential Achievement Rating" scale.

CHART I

<u>A Comparison of Professional Performance Ratings</u> <u>Received by All Cases</u>

- 1. Consider his ability to command confidence and respect through his personality
- 2. Consider how effectively he is able to meet the physical demands of his work; his reserve; his health regime
- 3. Consider his poise; his ability to remain calm under exacting responsibility; his self-control
- 4. Consider his success in proceeding with his work, without having to be told every detail; his ability to make and carry out practical suggestions for doing things in original and improved ways
- 5. Consider his alertness to discover and his ability to think through problems; his thoroughness; his power of analyzing situations
- 6. Consider his understanding of his position in relation to the program and purposes of the Y.M.C.A. as a whole, including an appreciation of the work of other departments
- 7. Consider the volume of work of standard quality he is able to accomplish.
- 8. Consider his ability to win and hold the cooperation and good will of the groups he serves, as well as his associates.
- 9. Consider his grasp of important social factors in the area he serves and his sense of the social significance of his work
- 10. Consider his all-around exemplification of genuine Christian character
- 11. Consider his understanding of the Y.M.C.A. as a World Movement and his appreciation of the significance of the Association's International and World Service programs

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NOTE: The dotted.....line represents the mean of the "More Successful" group The dashes - - - represent the mean of the "Less Successful" group

MEASUREMENT OF PROFESSIONAL SUCCESS OF SENIOR SECRETARIES

For this study the eleven elements of the "Confidential Achievement Rating" scale (see Appendix A), as completed by the supervisors of the Senior Secretaries being studied, were used as the measure of professional success. The "Confidential Achievement Rating" scale is used because it has been adopted by the National Council of Young Men's Christian Associations and is used in preparing personnel papers and taking personnel actions. Level of position and salary received by a Senior Secretary could have been chosen as a measure of professional success. No doubt, there are other measures of professional success; however, due to the various sizes of the associations represented in the study, it is considered that the "Confidential Achievement Rating" scale is the most objective measure.

MEASUREMENT OF INTELLIGENCE, PERSONAL VALUES, AND INTERESTS OF SENIOR SECRETARIES

For the measurement of intelligence of the subjects in this study, the Wonderlic Personnel Test was selected. The <u>Study of</u> <u>Values</u> by Allport, Vernon, and Lindzey was used to measure personal values, and the Kuder Preference Record, Vocational Form CH, was selected to determine interests.

Measurement of Intelligence

The Wonderlic Personnel Test was selected for this measure. This test is designed for testing adults in business and industrial situations. It has been found useful as a selection instrument in

hiring and placing applicants and also as an indicator of future possibilities. It is an easy tool to use in that it requires only twelve minutes to take and with a minimum of direction and supervision. Wonderlic (7, p. 4) states, "The reliability of the test is as good as for longer tests." Comparing the results of one twelve minute test taken immediately after another gave correlations of .82 to .94, indicating good reliability. While the test author does not present specific data on validity in the manual, he says that this was proved in actual business situations. The test has been shown to be a valid instrument in determining success on a number of different jobs. Correlations between the Personnel Test and the Otis Test are from .81 to .87.

Measurement of Personal Values

The Study of Values by Allport, Vernon, and Lindzey was selected for this investigation. The Study of Values aims to measure the relative prominence of six basic values or motives in personality: theoretical, economic, aesthetic, social, political, and religious. Allport, Vernon, Lindzey (1, p. 3) state: "... The classification is based directly upon Edward Spranger's <u>Types of Men</u>, a brilliant work which defends the view that the personalities of men are best known through a study of their values or evaluative attitudes."

Reliability of the <u>Study of Values</u> seems to be satisfactory. The mean reliability coefficient, using a \underline{z} transformation, was .89 which is considered to be fully adequate. Examination of the scores of groups whose characteristics are known provides evidence for the validity of the scale. This conclusion is made even though no specific comparable validity correlations are made by the authors.

The six basic values are described by Allport, Vernon, and Lindzey (1, pp. 13-14) as follows:

"1. The Theoretical - The dominant interest of the theoretical man is the discovery of truth. . . The interests of the theoretical man are empirical, critical, and rational; he is necessarily an intellectualist, frequently a scientist or philosopher. . .

"2. The Economic - . . . characteristically interested in what is useful. . . . the practical affairs of the business world. . . .

"3. The <u>Aesthetic</u> - . . . sees his highest value in form and harmony. Each single experience is judged from the standpoint of grace, symmetry, or fitness. . . .

"h. The Social - The highest value for this type is love of people. . . . The social man prizes other persons as ends, and is therefore himself kind, sympathetic, and unselfish.

"5. The Political - . . . is interested primarily in power. His activities are not necessarily within the narrow field of politics.

"6. The <u>Religious</u> - The highest value of the religious man may be called <u>unity</u>. He is mystical, and seeks to comprehend the cosmos as a whole, to relate himself to its embracing totality."

Measurement of Interests

The Kuder Preference Record, Vocational Form CH, was selected for this study. This test aims to make a systematic approach to the problem of vocational selection by isolating the broad fields of interests. The test classifies interests in ten general areas as follows:

0	Outdoor	5	Artistic
1	Mechanical	6	Literary
2	Computational	7	Musical
3	Scientific	8	Social Service
4	Persuasive	9	Clerical

The Kuder Preference Record, Vocational Form CH, is used chiefly in vocational counseling, employee counseling, and to motivate reading in fields of specific interests. In vocational counseling, the test is designed to point out occupations for further study and to verify a person's choice of an occupation. In employee counseling, the test can be useful in screening new employees and in impressing the placement of present employees. Various studies indicate that people work best in occupations they enjoy. Students can be encouraged to improve their reading skills when the reading material appeals to them. The test will help identify interesting reading material. This interest inventory was used in this study to determine the types of activities in which the Senior Secretaries are most interested.

Evidence has been collected which shows a relation between preference scores and factors of scholastic achievement, choice of occupations and curricula, general and special abilities, and job satisfaction. Varying correlations have been found, but all appear to be significant enough to consider the test valid.

Kuder (2, p. 20) concludes that reliabilities obtained from adults and high school students are fully satisfactory. They vary from a correlation of .84 to .93.

An individual's preferences indicates that he likes certain types of activities. The Preference Record classifies them into ten areas listed on page 15. In general, the areas are classified as explained in the following paragraphs:

The <u>Outdoor</u> refers to activity areas requiring working outdoors rather than indoors. Included in this scale are typical occupations ranging from the semi-skilled occupation of woodsman to its professional counterpart of forest ranger.

The <u>Mechanical</u> scale is designed to measure interests in mechanical activities. Typically included are the low skilled manual occupations to professional engineers.

The <u>Computational</u> scale aims to find interests in the occupational fields which require computational effort, such as bookkeeping, accounting, and the various business machine operation occupations.

The <u>Scientific</u> scale intends to measure interests in scientific activities. The scale is not limited to pure science but includes allied fields and scientific helpers.

The <u>Persuasive</u> scale aims to measure those activities in which the wielding of personal influence is important. Typical occupations are lawyers, advertisers, and auctioneers.

The <u>Artistic</u> scale measures interests in the activities requiring artistic talent of various kinds and degrees.

The <u>Literary</u> scale measures interests in the field of literature and acting.

The Musical scale measures interests in musical activities.

The <u>Social Service</u> scale measures interests in those activities requiring extensive dealings with other people ranging from personal service occupations, such as midwife and practical nurse to the professional occupations of clergyman and surgeon.

The <u>Clerical</u> scale measures interests in those occupations which are strictly clerical in nature, such as bookkeeping machine operator, general clerk, et cetera.

COMPARISON OF RATINGS OF PROFESSIONAL SUCCESS WITH INTELLIGENCE, FERSONAL VALUES, AND INTERESTS OF SENIOR SECRETARIES

After all the scores had been obtained for each of the measures included in the battery of tests; that is, the Wonderlic Personnel Test; the Study of Values by Allport, Vernon, and Lindzey; and the Kuder Preference Record, Vocational Form CH, these scores were then properly entered for each Senior Secretary participating in the study. The Senior Secretaries had been separated into two groups, "More Successful" and "Less Successful" on the basis of their professional success as measured by the "Confidential Achievement Rating" scale.

The two kinds of data, test scores and professional performance results, were worked into tables for application of the "t" technique (see Appendix B). The "t" technique method chosen was the difference between two means (mean ratings of the "More Successful" and "Less Successful" groups) - separate group variance - sample groups equal size as outlined by Wert, Neidt, and Ahmann (6, pp. 129-132).

The "t" value was obtained for the "More Successful" and the "Less Successful" groups by use of the formula:

$$t = \frac{x_1 - x_2}{\sum x^2 + \sum x^2}$$

$$\frac{\sum x^2}{k_1(k_1 - 1)} + \frac{\sum x^2}{k_2(k_2 - 1)}$$

The $\leq X^2$ for each group was obtained from the formula

$$\leq \mathbf{x}^2 = \leq \mathbf{x}^2 - \frac{(\leq \mathbf{x})^2}{N}$$

The "t" values were then compared with the tabled values of "t" to determine whether there existed significance at the 5 per cent level for consequent rejection or non-rejection of the null hypothesis.

The purpose of this study is to compare the professional performance of Y.M.C.A. Senior Secretaries and their intelligence, personal values, and interests.

The Senior Secretaries were divided into "More Successful" and "Less Successful" groups on the basis of ratings received on the Y.M.C.A. standard "Confidential Achievement Rating" scale.

Each Senior Secretary was given three tests: the Wonderlic Personnel Test; the Study of Values by Allport, Vernon, and Lindzey; and the Kuder Preference Record, Vocational Form CH. Each one thus had a score on each of the following characteristics:

1. Intelligence

2. Personal Values

- (a) Theoretical
- (b) Economic
- (c) Aesthetic
- (d) Social
- (e) Political
- (f) Religious
- 3. Interests
 - (a) Outdoor
 - (b) Mechanical
 - (c) Computational
 - (d) Scientific
 - (e) Persuasive
 - (f) Artistic
 - (g) Literary
 - (h) Musical
 - (i) Social Service
 - (\pm) 07 order 202 (\pm)
 - (j) Clerical

The mean scores of the "More Successful" and the "Less Successful" groups on each of the mentioned characteristics were compared by means of the "t" test.

CHAPTER IV

RESULTS

The problem undertaken in this study was to find if there is a relationship between professional performance of Y.M.C.A. Senior Secretaries and their intelligence, personal values, and interests. One hundred and four test batteries and seventy eight of the "Confidential Achievement Rating" scales were obtained. The study was limited by the time involved by the National Council of Young Men's Christian Associations in preparing the "Confidential Achievement Rating" scales. Even with this problem involved, a seventy-two per cent return was experienced.

In this chapter the following topics will be discussed:

- Comparison of the intelligence of the "More Successful" and the "Less Successful" Senior Secretaries.
- 2. Comparison of the personal values of the "More Successful" and the "Less Successful" Senior Secretaries.
- 3. Comparison of the interests of the "More Successful" and the "Less Successful" Senior Secretaries.

INTELLIGENCE

This section presents a comparison of the intelligence of the "More Successful" and the "Less Successful" Senior Secretaries. The Wonderlic Personnel Test was used to measure intelligence. Table II summarizes the results.

TABLE II

Comparison of Intelligence of "More Successful" and "Less Successful" Senior Secretaries as Measured by the Wonderlic Personnel Test

Mean Raw	Scores	ոքո
"More Successful"	"Less Successful"	
28.205	26.205	1.333

Value of "t" required for 5% level of significance is 1.991.

Table II may be used as follows: the mean raw score of the "More Successful" group of Senior Secretaries on the Wonderlic Personnel Test is 28.205; the mean raw score of the "Less Successful" group is 26.205; the obtained value of "t" is 1.333.

Since the obtained value of "t" (1.333) is less than the value of "t" required for the 5% level of confidence (1.991), it is seen that there is not a significant difference between the average intelligence of the "More Successful" and the "Less Successful" Senior Secretaries as measured by the Wonderlic Personnel Test. That is, the "More Successful" Senior Secretaries do not appear to be more intelligent than the "Less Successful" ones. Wonderlic (7, Table I, p. 6) indicates that a score of 28-29 compares with a percentile ranking of 38.5 for males, ages 20-30, with four years of college; and a score of 26-27 compares with a percentile ranking of 24.0 for the same group. For all educational levels the percentile ranking for the Wonderlic score of 26-27 is 67.3 and for a score of 28-29 the ranking is 76.2.

PERSONAL VALUES

This section presents comparisons of the personal values of the "More Successful" and the "Less Successful" Senior Secretaries. The Allport, Vernon, and Lindzey Study of Values was used to measure personal values. Table III summarizes the results.

TABLE III

Comparison of Personal Values of "More Successful" and "Less Successful" Senior Secretaries as Measured by the Allport, Vernon, Lindzey Study of Values

Mean R	п£и		
Values	"More Successful"	"Less Successful"	
Theoretical Economic Social Political Religious Aesthetic	37 • 744 38 • 077 41 • 423 40 • 141 49 • 115 33 • 500	38.026 37.154 41.410 37.718 51.769 33.923	0.181 0.627 0.013 1.742* 1.507 0.275

Value of "t" required for 5% level of significance is 1.991 *Significant at 10% level of confidence

Table III may be read as follows: in the Theoretical area of values the mean raw score of the "More Successful" group is 37.7h4; the mean raw score of the "Less Successful" group is 38.026. The value "t" - 0.181 is below the value "t" - 1.991 that is required for significance at the 5% level of confidence. Since the obtained value of "t" (0.181) is below the value of "t" required for the 5% level of confidence (1.991), it is seen that there is not a significant difference between the mean <u>Theoretical</u> scores of the "More Successful" and the "Less Successful" Senior Secretaries. That is, neither group is significantly more inclined toward Theoretical values than the other.

It is to be seen that none of the "t's" listed in Table III are large enough to indicate differences that are significant at the 5% level of confidence. The value of "t" - 1.742 for the area of <u>Political</u> values is significant at the 10% level of confidence. While the difference between the two groups is not statistically significant in the strict sense, there is a suggestion that the "More Successful" Senior Secretaries tend to be more strongly oriented toward <u>Political</u> values than do the "Less Successful" ones. Allport, Vernon, Lindzey (1, p. 14) state:

> "The political man is interested primarily in power. His activities are not necessarily within the narrow field of politics. . . Leaders in any field generally have high power value. Since competition and struggle play a large part in all life, many philosophers have seen power as the most universal and the most fundamental of motives. . . "

There appears to be no significant difference between "More Successful" and "Less Successful" Senior Secretaries in their orientation toward Theoretical, Economic, Social, Aesthetic, and Religious values.

INTERESTS

This section presents comparisons of the interests of the "More Successful" and the "Less Successful" Senior Secretaries. The Kuder Preference Record was used to measure interests. Table IV summarizes the results.

TABLE IV

Comparison of Interests	of "More Successful"
and "Less Successful"	
as Measured by the Kude	er Preference Record

Mean Raw Scores

Interests	"More Successful"	"Less Successful"	
Outdoor	37.487	40.051	0.842
Mechanical	31.128	34.179	1.093
Computational	23.897	22.051	0.719
Scientific	31.308	31.487	0.080
Persuasive	51.333	44.282	2.259*
Artistic	18.231	22.923	2•374*
Literary	23.128	18.564	2.645**
Musical	11.308	14.051	2.170*
Social Service	61.179	58.436	1.205
Clerical	39.821	41.333	0.541

Value of "t" required for 5% level of significance is 1.991 Value of "t" required for 1% level of significance is 2.641 *Significant at 5% level of confidence **Significant at 1% level of confidence

Table IV may be read as follows: in the <u>Outdoor</u> interest the mean raw score of the "More Successful" group is 37.487; the mean raw score of the "Less Successful" group is 40.051. The value of "t" - 0.842 is below the value "t" - 1.991 that is required for significance at the 5% level of confidence. Since the obtained value of "t" (0.842) is below the value of "t" required for the 5% level of confidence (1.991), it is seen there is not a significant difference between the mean <u>Outdoor</u> scores of the "More Successful" and the "Less Successful" Senior Secretaries. That is, neither group is significantly more inclined toward <u>outdoor</u> interests than the other.

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It is also to be seen that the "t's" listed in Table IV for the Mechanical, Computational, Scientific, Social Service, and Clerical interests are not large enough to indicate differences that are significant at the 5% level of confidence. The "t" values of 2.259 for Persuasive, 2.374 for Artistic, 2.645 for Literary, and 2.170 for Musical interests are significant at the 5% level of confidence. That is, the "More Successful" Senior Secretaries appear to be more interested in Persuasive and Literary activities than are the "Less Successful" Secretaries. The "Less Successful" Secretaries appear to be more interested in Artistic and Musical activities than are the "More Successful" Secretaries. There appear to be no significant differences in the interests of the "More Successful" and "Less Successful" Secretaries in Outdoor, Mechanical, Computational, Scientific, Social Service, and Clerical activities.

SUMMARY

The purpose of this study is to compare the professional performance of Y.M.C.A. Senior Secretaries and their intelligence, personal values, and interests.

The Senior Secretaries were divided into two groups on the basis of their professional performance as achieved on the "Confidential Achievement Rating" scale; that is, the "More Successful" and the "Less Successful."

Intelligence was measured by the Wonderlic Personnel Test, and no significant difference was found between the two groups.

Personal values were measured by the Allport, Vernon, and Lindzey Study of Values with the result that no significant

difference was found between the "More Successful" and the "Less Successful" groups in the values of Theoretical, Economic, Social, Religious, and Aesthetic. A difference approaching statistical significance (Significant at the 10% level of confidence) in Political values suggests that "More Successful" Senior Secretaries tend to desire and work for personal power more than do "Less Successful" ones.

Interests were measured by the Kuder Preference Record with the result that no significant difference was found between the "More Successful" and the "Less Successful" groups in the Outdoor, Mechanical, Computational, Scientific, Social Service, and Clerical activities. The Persuasive and Literary activities are statistically significant at the 5% level; the "More Successful" Senior Secretaries were interested in these activities. Significance is also found at the 5% level of confidence for the Artistic and Musical interests; however, in these activities the "Less Successful" Senior Secretaries have higher mean scores than the "More Successful" ones.

CHAPTER V

SUMMARY AND CONCLUSIONS

This chapter presents a summary of: the purpose of this study; the methods used in the study; the results and the conclusions drawn from the results; suggestions for future research.

PURPOSE

The purpose of this study was to measure the relationship, if any, between the professional performance of Y.M.C.A. Senior Secretaries and factors of their intelligence, personal values, and interests.

METHODS

Seventh-eight Senior Secretaries in twenty-three Young Men's Christian Associations of varying sizes were included in this study. The study was nationwide in scope, the associations were geographically dispersed, and they were of varying sizes.

The Wonderlic Personnel Test was selected to measure intelligence. The Study of Values by Allport, Vernon, and Lindzey was selected to measure personal values. Interests were determined by the Kuder Preference Record. Professional Success was measured by the National Council of Young Men's Christian Associations' "Confidential Achievement Rating" scale. The tests were assembled in one battery with instructions to the persons administering the tests and forwarded to the Y.M.C.A. selected for study. The tests were administered and returned to the writer for scoring, tabulation, and study.

The National Council of Young Men's Christian Associations tabulated the "Confidential Achievement Rating" scales on all the Senior Secretaries included in the study. Professional performance was determined on the basis of these scales, and the total ratings were divided into two groups: the "More Successful" and the "Less Successful." The "t" technique was applied to find the relationship between the test results of the "More Successful" and the "Less Successful" Senior Secretaries.

RESULTS

1. The "More Successful" Senior Secretaries tend to be more interested in literary activities than are the "Less Successful" Secretaries (1% level of confidence.).

2. The "More Successful" Senior Secretaries tend to be more interested in persuasive activities than are the "Less Successful" Secretaries (5% level of confidence).

3. The "Less Successful" Senior Secretaries tend to be more interested in artistic activities than are the "More Successful" Secretaries (5% level of confidence).

4. The "Less Successful" Senior Secretaries tend to be more interested in musical activities than are the "More Successful" Secretaries (5% level of confidence).

5. There is a very slight suggestion, not significant in the statistical sense, that the "More Successful" Senior Secretaries are

more interested in having power over others than the "Less Successful" Secretaries (10% level of confidence).

The traits on which significance was found implies that a distinct difference does exist between "More Successful" and "Less Successful" Senior Secretaries. These were all on the Kuder Preference Record in the interests of Persuasive, Artistic, Literary, and Musical activities. The "More Successful" Senior Secretaries tend to be more interested in Persuasive and Literary activities and less interested in Artistic and Musical activities than the "Less Successful" ones.

Perhaps the nature of his work requires a successful Y.M.C.A. Senior Secretary to be persuasive. He is required to organize, plan, and control for a variety of groups of people, both organized and unorganized. The fact that the "More Successful" Senior Secretaries tend toward Political values on the Study of Values, seems to be related to the Persuasive interest. The great interest of the "More Successful" Senior Secretaries in Literary interests (found to be significant at the 1% level of confidence) is more closely related to the Persuasive and Political interests than it first appears to be. It may be that extensive reading and a deep interest in it is why the successful Secretary is really successful.

SUGGESTIONS FOR FURTHER RESEARCH

It is self-evident that more research needs to be done in the field of psychological testing to ascertain whether tests can be successfully used to predict whether an incoming Y.M.C.A. Secretary will be a successful one. This proposition implies that the research could well result in the selection and use of a battery of tests to select Y.M.C.A. Secretaries, and thus eliminate the candidates who are potentially weak.

The "Confidential Achievement Rating" scale used to measure job performance of the Y.M.C.A. Secretary is the currently accepted way of measuring how well the Secretary performs. The "Confidential Achievement Rating" scale has never been validated and, consequently, lends itself to research. Closely assocated with this problem, the opportunity for research presents itself in the use of some other criteria for job success. The attributes possessed by those who remain with the Association until retirement as compared with the attributes of those who leave the Association early in their employment would make an interesting study.

The "More Successful" Senior Secretaries being more interested than the "Less Successful" one in Literary activities at the 1% level of confidence suggests that research into the reading habits of Y.M.C.A. Secretaries would be interesting and worthwhile.

The data collected in this study could be used for further research. An interesting research problem would be to compare the professional performance of the top one-third with that of the bottom one-third. Obviously, there are other statistical techniques which could be appropriately applied to the data produced by this study.

From a practical viewpoint, it is considered that this study is an important one. The Young Men's Christian Association is international in scope and has an extremely important role in social service activities. Senior Secretaries are the recognized leaders in the Y.M.C.A. movement, and in the communities where Y.M.C.A.'s are located the Secretaries have a desirable influence on the people within the communities. This study with its

significant findings will appeal to other social agencies, governmental bodies, and private industry in studying what traits are possessed by their executives, managers, and other supervisory personnel. With the emphasis today on human relations, the selection of people who supervise the efforts of others is very important.

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August 11, 1953

Dear____:

We are now working on a little project that is right down your "alley" and it should be very interesting to you. We hope very much that you will be able to help us with it and actually all it will take is about one and one-half hours of your time. The results of this project should be beneficial not only to your Association but to the entire movement.

Cecil McGee and myself, from Omaha, are cooperating on a national study in the field of personnel. Our plan has received the blessing and cooperation of Dick Lancaster and Clifford Carey from our national staff, and we are working closely with them so that our final results will be usable by the entire Y.M.C.A. The plan is to check the relationship between job success or failure and the intelligence, personality, and interests of Y.M.C.A. Secretaries. We will use the Wonderlic Intelligence Test, the Allport-Vernon Study of Values (personality), and the Kuder Vocational Interest Test. It will be necessary to give this brief battery of tests to 100 "Y" Secretaries across the nation. Fifty of these men will come from Associations employing more than ten secretaries; 25 of the men will be from one and two men staffs, and the balance will come from some other small Associations. We propose to have five large Associations give the battery of tests to ten Secretaries. If the ten men can be assembled at one time, the job can be done in about one hour and twenty minutes. We would like for St. Louis to be one of the five larger Associations, and we are in hopes that you will take the responsibility of administering the tests. Each of these tests may be given quite easily, and complete instructions will accompany them. We will send you everything that is necessary to complete the job and actually, it will not be too difficult if you can figure a way to get ten of your men together at one time. That's all there is to it, as the ratings of the men will be taken from the Area and National files.

Please let me know if you can help us on this project and we will forward you the tests sometime during September. The study results will be mailed to all participating Associations and might be of value to you in the future selection of men.

Sincerely,

November 19, 1953

Dear____:

Ten batteries of tests were forwarded to you today for use with Senior Secretaries on your Los Angeles staff. There is a set of complete instructions with each battery of tests; however, the instructions should be considered by yourself or the director of your counseling program before showing them to the individuals that will participate in the study. Whoever administers the tests should go over them carefully prior to administration of the tests, and I'm sure you'll have no difficulty.

Each battery of three tests is numbered and the three tests taken by any one individual should bear the same number. After the tests have been administered, all you have to do is ship them back to us for grading and reporting. Be sure that each person taking the tests signs his name to each of them. I hope that you'll be able to have them completed in the near future, as I only purchased 25 of the Kuder manuals; therefore, I can only have 25 batteries out at one time, and must wait until they return to proceed with additional associations.

One final request, please ask each of your men to write under his name on the Wonderlic Test the last year that he has completed in college. We are toying with the idea of relating education to job success along with the other items.

Thank you very much for your help on this matter. I know that it is a lot of trouble and something you would just as soon not do. However, if the findings are significant, maybe it will be worthwhile, and maybe it will help us to do a better job of selection in the future.

Sincerely,

YMCA NATIONAL STUDY

JOB PERFORMANCE OF YMCA SECRETARIES RELATED TO FACTORS OF THEIR INTELLIGENCE, PERSONALITY, AND INTERESTS

Mr. Secretary:

Thank you for indicating that you will cooperate with this study. Your participation will do the following things;

- 1. It will give you an opportunity to obtain an objective evaluation of your staff members.
- 2. It will help the National YMCA analyze measuring devices for selecting YMCA Secretaries.
- 3. The study will add to the field of scientific research by identifying what characteristics are inherent in the field of leadership.

This study will attempt to find the differences, if any, between the varying degrees of success of YMCA Senior Secretaries and factors of their intelligence, personality, and interests.

You will contribute to this study by administering the easily given battery of tests.

Steps to follow:

- 1. Read all instructions personally and look at tests so that you understand the plan, before meeting with persons that are to takethe tests.
- 2. Give each person that is to take the tests a test packet. Caution them not to open the Wonderlic Test.
- 3. Have them sign their full names on the outside of each test.
- 4. Proceed with the tests following carefully the instructions for each one.
- 5. All tests can be given to several persons at one time.
- 6. Take up the tests as each is completed. Check to see that each is signed. Forward completed tests to: Al Hummel, Asst. Gen. Secy., Downtown Y.M.C.A., 17th and Harney Streets, Omaha, Nebraska.
- 7. Use pencil for Wonderlic Test and Allport-Vernon Test, as corrections are permissible.

INFORMATION AND INSTRUCTIONS FOR ADMINISTERING BATTERY OF TESTS

Wonderlic Personnel Test

NOTE: -- This is a time test. Persons taking this test should not look at the questions until instructions have been given and the timer says start.

After passing out the test, the examiner says, "Read the first page carefully and work the sample problems. Do not turn the page until you are told to do so." After those being tested have had an opportunity to work each of the samples and read all the directions on the first page, the examiner should ask if everyone understands the way in which they are to work. He then says, "You will have exactly 12 minutes in which to answer as many problems as you can. You probably will not be able to finish all of them. Work as carefully as you can, but do not spend too much on any one problem. I will stop you at the end of 12 minutes. Begin now!" Use stop watch or a watch with sweep second hand. Write down the starting and stopping time. Any variation on time voids this test.

In addition to these directions, some examiners find it helpful to read aloud the paragraph of instructions on the first page of each form, which begins, "The test contains 50 questions . . . Do not spend too much time on any one problem . . ."

After those taking the test begin working, they are not to be interrupted until exactly 12 minutes have elapsed. At the end of 12 minutes, all papers are collected for scoring.

Study of Values

A. The Study of Values is self-administering. It is not absolutely necessary to give verbal instructions to the persons; however, special caution regarding one feature of Part I and one feature of Part II should be given. In Part I, three points are to be divided for each question between Item A and Item B as you choose--O-3, 1-2, 2-1, or 3-0. In Part II the first choices (highest value judgment) should be given a score of l_{+} , the lowest a score of 1. There are four items to be rated for each question in Part II, all four must be given a score-- $l_{+}-3-2-1$. See instructions.

<u>B-1</u>. It is advisable to give Part I first and let the person or persons taking the test complete Part I before talking about Part II. Therefore, have all concerned read instructions together for Part I (on the cover). Discuss instructions and be sure everyone understands them. They may now proceed to answer items in Part I.

B-2. There is no time limit.

B-3. Every question must be answered as per instructions.

When all have completed Part I, read together instructions for Part II on page 6. Discuss instructions and complete test.

Kuder Preference Record, Vocational Form CH

1. The test is self-administering. Directions explaining how to mark the answers are given in the test booklet. Persons taking the test are given copies of the booklet and told to read the directions. Have everyone read instructions and then ask for questions or discussion. Be sure everyone understands the method of correcting errors and importance of punching clean deep holes. They then proceed to mark their preferences for the various activities.

2. There is no time limit.

3. The person administering the test should watch the subjects carefully during the first few minutes to see that the pins are being used correctly, and to make sure that each subject is marking one first choice and one last choice in each group of 3 activities.

TABLE V

PROFESSIONAL PERFORMANCE RATINGS

"More Successful" Group

Code					I	lems						Total
	1	2	3	4	5	6	7	8	9	10	11	
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TABLE VI

PROFESSIONAL PERFORMANCE RATINGS

"Less	Successful"	Group

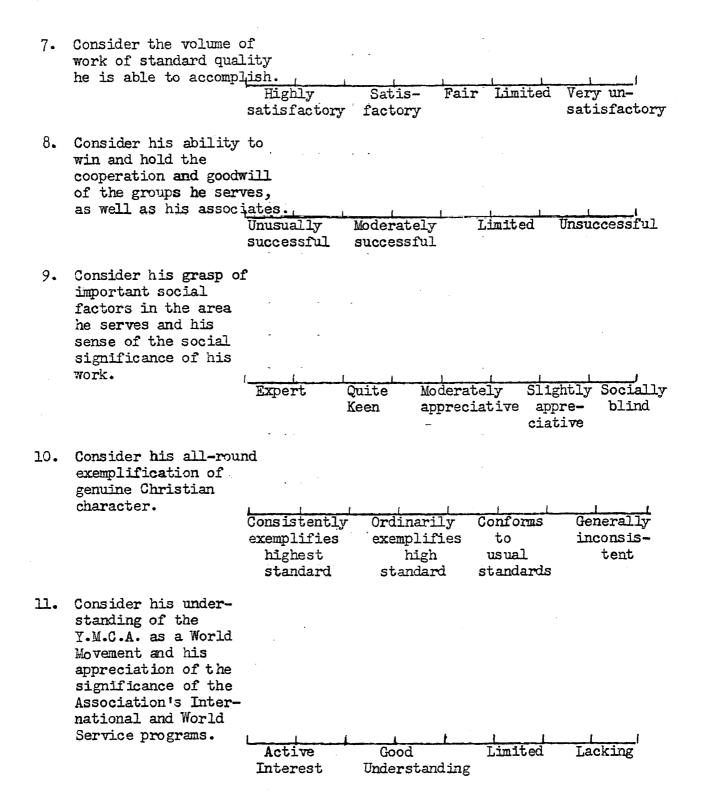
Cod	e				I	tems						Total
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Tot:	297.0											3296.9
X	7.6	7.6	7•7	7.6	7.1	7.5	7.6	7.8	7•3	8.6	8.0	

<u>A P P E N D I X B</u>

Profile Summary of

CONFIDENTIAL ACHIEVEMENT RATING

1.	Consider his ability to command confidence and respect through his personality.		Partia. Success:	•	reates listrust
			·		
2.	Consider how effect: he is able to meet physical demands of work; his reserve; health regime.	his	health Aven		Fre- Fre- y quently incapaci- tated
3.	Consider his poise; ability to remain ca exacting responsibil his self-control.	alm under	Generally well control	Easily Led Excitat	
<u>ц</u> .	Consider his success in proceeding with 1 work without having be told every detail his ability to make carry out practical gestions for doing in original and impo ways.	nis to l; and sug- things			eds constant lirection
5.	Consider his alertne to discover and his ability to think through problems; his thoroughness; his power of analyzing situations.		Quite alert and through	Slow to find so- lution of problem	Dull
6.	Consider his under- standing of his post in relation to the p and purposes of the as a whole, including appreciation of the other departments.	orogram Y.M.C.A. ng an	en Fair Gra	sp ¹ Meager-	



WONDERLI	C

-	"More	Success	ful"		"Less Successful"				
Code	Rating	X	x ²	Code	Rating	X	x ²		
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THEORETICAL

	"More	Success	ful"	1 164 419 412 1 167 41 16		"Les	s Succes	sful"
Code	Rating	X	x ²		Code	Rating	X	x ²
71 11 8 32 126 8 11 9 15 9 10 7 15 10 8 11 9 5 0 8 11 9 5 0 8 11 9 7 2 9 2 7 2 5 0 2 9 7 5 15 8 7 2 5 15 8 7 2 5 19 9 5 0 7 5 15 8 11 9 5 15 8 11 9 5 10 8 11 9 5 10 8 11 9 5 10 8 11 9 5 10 8 11 9 11 9 11 9 11 9 11 9 11 9 11 9	90.0 93.2 92.9 94.6 94.1 92.9 96.0 95.1 95.1 90.5 92.2 91.9 92.2 91.9 92.2 91.9 92.2 91.9 92.2 91.9 92.2 91.9 92.2 92.9 92.2 92.9 92.2 92.9 92.2 92.9 92.2 92.9 92.2 92.9 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 92.2 9	34443704657244337775774849224458272299572384 72	1296 1764 1936 1849 2209 1600 1296 625 2601 1764 1089 1369 1225 3249 1256 1444 1936 1600 2025 900 1024 1521 1521 1521 1525 961 1024 1521 2304 57,626		91 2 3 4 5 8 1 9 1 1 5 4 5 9 8 1 1 7 8 3 5 5 5 3 7 4 3 4 5 2 2 4 7 1 9 2 1 7 4 3 4 5 2 2 4 7 1 9 2 1 7 4 3 4 7 4 9 2 1 7 4 5 9 8 1 2 7 4 5 9 8 1 7 4 5 9 8 1 9 6 1 5 9 8 1 9 8 1 1 5 9 8 1 9 8 1 1 5 9 8 1 9 8 1 1 5 9 8 1 9 8 1 1 5 9 8 1 9 8 1 1 5 9 8 1 9 8 1 1 5 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 8 1 9 1 9	85.6 88.351.6 89.9 85.0 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.	28303030637015128651783534848273897559068 304496704512865147835348482738975539068	784 1089 600 1849 1600 1296 961 1296 1369 900 1681 1225 1681 1225 1681 1225 1681 1225 1681 1225 1681 1296 1225 1681 1225 1681 1225 1681 1225 1681 1225 1681 1225 1681 1225 1849 2025 1849 1156 1444 1764 1369 1225 1225 1849 1225 1849 1444 1764 1369 1225 1225 1680 1444 1369 1225 1225 1680 1444 1369 1225 1225 1680 2116 1404 1369 1225 1225 1521 1600 2116 1404 1500 2116 1404
Ī,	37•744		- -	x ₂		38.026		
۲ ۲	1)472					1483		
ξx ²	57,626			ξ x ₂ ξ x ₂ ² ξ x ₂ ²		57,915		
ξx ²	2067.4	36		źrż		1522.974		
	t. 100	1 ma - 0	ר 8 ר	- 6				

t value = 0.181

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ECONOMIC

	"More	Succes	sful"		"Less	Success	ful"
Code	Rating	X	x ²	Code	Rating	X	x ²
716118 3212811916907619504811673949722519997455872 1916118 32246 19 5 191619508116739497250997455872 19171156117	90.0 93.2 92.9 94.1 92.9 94.1 92.9 96.0 97.4 18 90.0 92.2 99.9 94.1 99.9 99.9 99.9 99.9 99.9 99.9	34899344332454337444753334934329954943223484	1089 2116 1444 1521 1521 1521 164 1225 900 625 2401 2500 1764 1089 1369 1369 1600 1600 2209 1225 1849 1089 2116 1521 1156 1089 2116 1521 1156 1089 1764 2401 900 1225 1600 900 2216 1521 1156 1089 1764 2401 900 1225 1600 900 2116 1024 961 729 1024 1681 1444 1681 1444 1681 1444 1681	9123638109115459810178346793176432424212082177434	85.6 883.5 89.9 85.0 89.7 85.0 89.1 89.9 88.7 89.1 88.8 80.8 80.8 80.1 80.9 80.7 80.7 80.1 80.7 80.7 80.7 80.7 80.7 80.7 80.7 80.7	3354452432632453245354426377482254436526382682 4	1521 1521 1225 1600 1156 2025 625 1681 1089 784 1521 6259 1689 764 1296 1369 1369 1369 1369 1296 1369 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1369 1296 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1521 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024 1024
$\overline{\mathbf{x}}_1$	38.077		x ₂	37.15	24		
źx <u>1</u>	1485			1449			
∠-1 ≲X1 ²	58,081		E x ²	55,51	.3		
ξx ₁ ²	1536.7		Ex ₂ Ex ² Ex ² 2	1677.			
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SOCIAL

IIT.ocs	Successfu	7 11
"Less	Successiu	

-	"More S	uccessf	<u>ul</u> "	<u>لە بورە مەرىپەر بەرىپەر بەرىپە</u>	"Less Successful"				
Code	Rating	X	x ²	Code	Rating	X	x ²		
71518 32128 119 15 00 71 9 504 116 73 49 72 50 99 74 515 151 017 -	90.0 93.7 93.2 94.6 94.1 99.9 94.1 99.9 99.9 99.9 99.9 99.9	39344333344444454443444444444777383443452999957490 1615	1521 1521 156 1936 1369 1024 1225 1849 1849 2401 2116 1764 2025 2704 2401 1600 1296 1600 1600 2304 1936 1681 1156 3249 2209 1332.25 1521 2401 2116 1369 1681 1521 216 1369 1681 2704 841 1521 216 1369 1681 2704 841 1521 2025 1369 1681 2704 841 1521 2025 1369 1681 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 841 2704 2025 2704 2401 2160 200 2304 1936 1681 2704 2401 2160 2304 1936 1681 2704 2401 2160 200 2304 1936 1681 2704 2401 2160 2304 1936 1681 2169 1681 2169 200 200 200 200 200 200 200 200 200 20	91 112 364 354 10 9106 30 9106 30 9106 30 9106 30 9106 30 9106 30 9106 30 9106 30 9106 30 9107 9109 9109 9109 9109 9109 9109 910	85.6 88.3 81.1 89.9 85.2 89.4 85.2 87.9 85.2 87.0 85.2 88.2 87.1 88.8 86.3 86.3 85.4 81.1 82.7 88.8 86.3 85.4 85.4 83.1 1 41.5 26.5 85.8 81.2 81.5 85.6 85.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4	40000392126779077100215918507838726039177 1615	2401 1600 900 1600 1849 1521 1764 1681 1764 2116 3249 2209 1521 500 2209 3249 1936 900 1024 1681 2304 1225 2500 1369 1444 1089 1444 1369 1764 2116 1681 1369 1764 1369 1764 1369 1764 1369 1764 1369 1764 1369 1764 1369 1764 1369 1764 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369		
ī,	41.423		<u>x</u> 2	41.410					
ź X _l	1615.5		Er2	1615					
€x ²	68,393.25	5	≲x2	66,625					
< x ₁ ²	1474.269		x ₂ ²	-252.564					

POLITICAL

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Code	Rating	X	x ²		Code	Rating	X	x ²
71 156 11 8 32 126 19 15 00 4 19 5 00 5 158 11 9 2 94 9 27 5 10 20 7 5 15 15 15 10 11 7	90.0 93.7 92.9 94.4 94.4 92.9 94.4 92.9 96.0 97.4 95.1 86.5 97.2 91.0 97.2 91.9 91.7 91.7 91.7 91.7 91.7 91.7 91.7		3025 1849 1369 1764 1369 1936 1600 1089 2401 1225 1444 1849 156 1681 900 1521 1296 1225 1849 1600 1369 1089 1849 2025 2162.25 1681 1521 2401 1849 2025.25 1681 1521 2401 1849 2162.25 1681 1521 2401 1849 2162.25 1681 1521 2401 1849 2162.25 1681 1521 2401 1849 2162.25 1681 1521 2401 1849 2166 1369 2401 1849 2166 1369 2401 1849 2166 1369 2401 1296 1369 2401 1296 1369 2401 1849 2160 1521 2401 1849 2160 1369 2401 1849 2160 1369 2401 1296 1369 2401 1296 1369 2401 1296 1369 2401 1296 1369 2401 1296 1369 2401 1296 1369 2401 1296 1369 2401 1296 1600 1444 1849 2401 1296 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 160 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600		91 112 364 358 10 91 115 45 98 105 45 98 105 45 98 105 45 98 105 45 98 105 45 98 105 45 98 105 45 98 105 45 98 105 45 98 105 45 98 105 105 45 98 105 105 105 105 105 105 105 105 105 105	85.6 88.3 83.5 89.9 83.7 89.9 85.2 89.4 89.6 87.6 88.8 86.8 86.3 85.4 89.7 89.4 88.8 86.8 85.9 44.3 81.1 41.5 82.6 5.8 81.1 81.2 81.1 82.1 82.1 82.1 83.1 82.1 83.1 82.1 83.1 82.1 83.1 82.1 83.1 83.1 83.1 83.1 83.1 83.1 83.1 83	4443747387334434625803999744798886663387688803 471	2025 1936 1156 1369 1156 1369 1849 1849 1849 1849 1849 1849 2116 1024 1225 1444 400 1849 2401 1521 729 1156 1369 841 784 1444 1296 2116 1089 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 1369 2809 1444 275 156 2304 1449 2304 1449 2304 159 2304 1449 2304 1449 2304 159 2304 1449 2304 159 2304 1449 2304 159 2304 1444 2305 150 2304 1445 2304 1445 2304 1445 2304 1445 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1455 2304 1557 257 257 257 257
Ī.	40.141	-	Ī ₂	37.718				
źx <u>i</u>	1565.5		źr ₂	1471				
≤ x ₁ ²	64,045.25		Ex2	57,151				
5x2	1204.475		E x2 E x2	1667.8	97			
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t value = 1.742

RELIGIOUS

	"More 3	Successfi	1]"	1100-0 00,-00000000000000000000000000000	an de la companya de	"Less i	Successi	ul"
Code	Rating	X	x ²		Code	Rating	X	X ²
71	90.0	55	3025		91	85.6	51	2601
156	93•7	27	729		112	88.3	54	2910
	93.2	54	2916		3	83.5	48	2301
11 8	92.9	49	2401		64	81.1	50	2500
32	94-8	55	3025		35	89.6	54	2916
124	94.6	51	2601		84	78.9	47	2209
125	94.4	55	3025		10	83.7	53	2809
81	94.1	55 51 55 60	3600		9	85.2	45	202
119	92.4	57	3249		106	87.0	56	2136
49	98.9	57 58	3364		113	89.4	55	3025
115	96.6	54	2916		50	89.1	56	3136
69	96.0	41	1681		4	88.6	39	1523
100	95•9	52	2704		55	82.7	53	2809
47	95.7	54	2916		99	85.7	39 53 57 51	3249
61	95-4	59	3481		86	86.1	51	2601
89	94.1	54 59 57	3249		101	88.1	59	34 8 3
95	95.8	52 47	2704		l	86.8	53	2809
104	92.1	47	2209	·	70	87.8	42	176L
58	91.8	22	484		85	87.6	36	1296
111	90.6	50	2500		34 56	86.8	56	3136
116	90.5	59 47	3481		56	86.3	49	2401
97	92.0	47	2209		57	86.2	47	2209
23	92.3	49	2401		59	86.1	47 54 56	2916
94	95.2	43	1849		67	85.9	50	3136
29	91.2	45 45 월	2025		31 64	85.8	55 56	3025
27	96.7	45支	2070.25		04	85.4	50	3136
52	93.2	36 50	1296		53	85.4	55	3025
105	97.1	52	2704		98	84.5	52	2704
92 90	97•9 94•7	53 42	2809		24	84.3	50 53	2500 2809
74	94•7 90•2	42 46	1764 2116		22	83.1	38	2005 144
75	94.7		1600		山 72	83.1	61	2707
75 158	92.5	40 51	2601		102	82.4	48	372] 2304
157	92•9	52	2809		21	81 2	40 51,	2916
152	96.7	62	2009 3844		117	82.1 81.2 78.6	74 55	3025
51	95.2	40 51 53 62 60 47 52	3600		37	74.5	54 55 51	2601
60	90.0	h7	2209		37 44	78.6	58	3364
118	99.2	52	2704		73	76.0	57	3249
7	90.7	_24_	576		40	85.8	58 57 55	3025
		1915.5	97,446.25				2019	105753
<u>x</u> 1	49.115		$\overline{\mathbf{x}}_2$	51.769	>			
{x ₁	1915.5		₹ 2x2	2019				

 $\begin{cases} x_1 & 1915.5 & \xi x_2 & 2019 \\ \xi x_1^2 & 97,446.25 & \xi x_2^2 & 105,753 \\ \xi x_1^2 & 3365.731 & \xi x_2^2 & 1230.924 \end{cases}$

t value = 1.507

AESTHETIC

	"More Suc	cessful"		₩₽₩ ₽ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	"Less &	Successi	[u]"
Code	Rating	X	x ²	Code	Rating	X	x ²
71518 32246 9 5 007 1 9 5 048 1 6 7 3 4 9 7 5 1 9 9 7 4 5 5 7 2 6 1 7 1 5 1 9 9 5 00 1 7 1 5 1 1 9 7 3 4 9 7 5 1 9 9 7 4 5 5 7 2 6 1 7	90.0 93.2 92.9 94.6 414960974181865032272197275972027 999999999999999999999999999999999	2233325343362242562275363223232344429362454542243335	484 1849 1089 529 625 900 1156 1089 1296 484 729 576 625 676 1024 729 625 1296 1849 1024 900 961 156 1936 $870 \cdot 25$ 900 1681 156 1936 $870 \cdot 25$ 900 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1681 1025 1256 2704 841 1024 900 625 1681 1025 2025 1266 2704 841 1024 900 625 1681 1025 1681 1025 1681 1025 2704 849 2916	91 112 3 64 35 84 10 9 10 13 5 9 8 10 1 7 8 34 5 7 9 7 3 64 3 8 44 22 4 7 10 21 17 3 44 7 3 40	85.6 83.51.6 97.2041.67711.8 86.83.51.697.2041.6771.8 86.83.65.19.8 88.825.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.108.8 88.85.85.108.8 88.85.108.8 88.85.85.108.8 88.85.85.108.8 88.85.85.108.85.108.85.85.108.85.85.108.85.85.108.85.85.85.108.85.85.85.108.85.85.85.108.85.85.85.100.85.85.100.85.100.85.100.85.100.000.85.100.000.85.100.000.000.000.000.000.000.000.000.00	3034433443752345534913345233135432334512222367985	900 900 1849 1600 1024 1369 1325 1369 1225 1225 1225 1225 1225 1225 1225 122
₹.	33.500	1300.5	46,249.25 ▼	22 022		1323	46,905
Ī I		~	₹2 <⊻	33•923			
x1 x1 x1	1306.5		€x2 €x22	1323			
: X1	46,249		EX2	46,905			
$\{\mathbf{x}_1^2$	2481.5	00	Ex2	1024.769			

t value = 0.275

OUTDOOR

udicate de la composition	"More Su	iccessf	uln			"Less	Successi	[ul"
Code	Rating	X	x ²	(Code	Rating	X	x ²
71 156 12 22 12 12 19 15 10 17 15 156 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	90.0 93.7 93.2 94.4 94.4 94.4 92.9 95.4 95.4 90.5 92.3 92.7 91.9 92.7 91.9 92.7 91.9 92.9 92.7 92.9 92.7 92.9 92.9 92.7 92.9 92.9	19799553206333655589553348295968283647553233	$\begin{array}{c} 361\\ 729\\ 2401\\ 841\\ 2916\\ 3481\\ 1369\\ 676\\ 900\\ 3136\\ 1089\\ 1089\\ 3136\\ 625\\ 784\\ 4761\\ 2025\\ 1225\\ 784\\ 4761\\ 2025\\ 1225\\ 961\\ 2304\\ 261\\ 1024\\ 1369\\ 1296\\ 4096\\ 729\\ 625\\ 2601\\ 1089\\ 1296\\ 4096\\ 729\\ 625\\ 2601\\ 1089\\ 1296\\ 4096\\ 729\\ 625\\ 2601\\ 1089\\ 1296\\ 4096\\ 729\\ 625\\ 2601\\ 1089\\ 1296\\ 4096\\ 729\\ 625\\ 2601\\ 1089\\ 1296\\ 4096\\ 729\\ 625\\ 2601\\ 1089\\ 1296\\ 4096\\ 729\\ 625\\ 2601\\ 1089\\ 1089\\ 1089\\ 108\\ 108\\ 108\\ 108\\ 108\\ 108\\ 108\\ 108$		91236455409603 1236455409603 1053467597314384221202177430	85.6 88.3 83.5 81.1 89.6 78.9 83.7 85.0 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87	2946236710357393233465549461452275758390	$\begin{array}{c} 484\\ 361\\ 576\\ 3136\\ 400\\ 169\\ 616\\ 729\\ 961\\ 2500\\ 900\\ 3025\\ 729\\ 900\\ 1521\\ 2704\\ 1521\\ 900\\ 2209\\ 3721\\ 3364\\ 1296\\ 1225\\ 4096\\ 1296\\ 1296\\ 1296\\ 1296\\ 1296\\ 1296\\ 1296\\ 1296\\ 1296\\ 1295\\ 3249\\ 3025\\ 2304\\ 1521\\ 1600\\ 1296\\ 1295\\ 1764\\ 729\\ 625\\ 3249\\ 3025\\ 2304\\ 1521\\ 1600\\ 1681\\ 3721\\ 2916\\ 1295\\ 1764\\ 729\\ 625\\ 3249\\ 3025\\ 2304\\ 1521\\ 1600\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 1$
x ₁	37.487	1462	61,392 X ₂	40.051			1562	69 , 716
Ξ ξI	1462			1562				
$\leq x_1^2$	61,392		∑x ₂ ≤x22 ≤x22	59,716				
< <u>x</u> ² < <u>x</u> ²	6585 . 74		<u>∽~</u> 2 ≲π ²	7155.89	8			
~7	t value				-			

t value = 0.842

COMPUTATIONAL

	"More S	uccessi	ul"		"Less S	uccess:	<u>ful</u> #
Code	Rating	X	x ²	Code	Rating	X	x ²
7151 8 3246 19 15 900 16 19 504 11 97 3497 25 10 20 45 15 15 10 17 7	90.0 93.7 93.2 92.9 94.6 94.1 92.9 96.0 95.7 95.4 95.9 95.9 95.9 95.9 95.9 95.9 95.9	4815579209128791788799799999692729258301 32579209128797887997999999999929258301 325979209128301	$\begin{array}{c} 1936\\ 1 \\ 1 \\ 961\\ 625\\ 1225\\ 289\\ 81\\ 484\\ 400\\ 81\\ 1529\\ 784\\ 289\\ 361\\ 289\\ 361\\ 289\\ 324\\ 729\\ 811\\ 521\\ 81\\ 1521\\ 676\\ 361\\ 1 \\ 1 \\ 484\\ 225\\ 324\\ 169\\ 3600\\ 2601\\ 27,690\\ \end{array}$	81 112 3 64 35 84 10 9 104 10 9 104 10 10 10 10 10 10 10 10 10 10 10 10 10	85.6 88.3 81.1 89.9 88.7 89.1 85.7 89.1 88.7 89.1 88.8 88.8 86.8 86.3 81.1 89.9 88.7 89.1 88.7 89.1 88.8 86.8 86.3 81.1 9.1 1.1 88.8 86.8 86.3 85.4 4.3 1.1 4.1 5.2 6.5 80.8 81.1 83.1 1.1 83.1 1.1 83.1 83.1 83.1	351064773769421822152763732932472983742282823151314	$1225 \\ 100 \\ 36 \\ 1681 \\ 289 \\ 1849 \\ 289 \\ 1296 \\ 841 \\ 196 \\ 1324 \\ 141 \\ 225 \\ 729 \\ 256 \\ 1369 \\ 529 \\ 481 \\ 900 \\ 576 \\ 289 \\ 400 \\ 81 \\ 1369 \\ 196 \\ 576 \\ 484 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 570 \\ 1024 \\ 324 \\ 325 \\ 1024 \\ 324 \\ 325 \\ 1024 \\ 324 \\ 324 \\ 324 \\ 324 \\ 325 \\ 1024 \\ 324 \\ 325 \\ 1024 \\ 324 \\ 325 \\ 1024 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324 \\ 324$
ī	23.897		₹ ₂	22.051			
źr _l	932			860			
≤ x ² 1	27,690		€x2 €x2	23,299			
<u></u> <i>z</i> x ² ₁	5417.5	90	₹x ²	4334.898			

t value = 0.719

MECHANICAL

Lautorada - Caraba - cara	"More S	uccessf	'ul"			"Less S	Successi	ul"
Code	Rating	X	x ²	Go	ode	Rating	X	x ²
71 156 32128 1995 907 1811 97399725 1997755872 15017 7	90.0 93.2 92.9 94.4 92.9 94.4 92.9 92.2 92.2 92	240834509655228446538272352227200011128129588119 121	576 100 1444 1156 2025 1600 841 676 225 625 1764 1936 2116 625 529 3364 1764 1369 484 1369 484 1369 400 2500 100 961 1681 784 961 1600 841 1225 784 324 121 600 841 1225 784 324 121 81	91 3 6 3 5 4 5 9 8 1 9 1 1 5 4 5 9 8 6 1 1 7 8 3 1 5 7 1 2 1 2 1 1 7 1 2 1 2 1 2 1 2 1 1 5 4 5 9 8 8 1 1 9 11 5 4 5 9 8 1 1 9 11 5 4 5 9 8 1 1 9 11 5 4 5 9 8 1 1 9 11 5 4 5 9 8 1 1 9 11 5 4 5 9 8 8 1 1 9 11 5 4 5 9 8 1 1 9 11 5 4 5 9 8 8 11 9 11 5 4 5 9 8 8 11 5 9 8 11 5 9 8 11 5 4 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 5 9 8 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		85.6 88.3 83.5 81.1 89.6 78.9 85.2 87.0 89.1 87.0 89.1 87.0 89.1 87.0 89.1 87.0 89.1 87.0 89.1 87.0 89.1 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87.0	11 37 5 31 42 19 22 5 00 5 88 99 95 33 93 35 42 34 6 32 7 4 37 5 32 35 55 7 9 4 9 88 0 34 33 133	121 1369 2025 961 576 441 2401 1764 225 2500 225 1441 361 3025 1089 841 1089 2809 2025 484 1156 2116 1024 289 1681 1369 3025 1024 1369 3025 1024 1369 2401 1369 2401 1369 2025 484 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 3025 1024 1369 2401 1369 2401 1369 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1089 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2025 1024 1369 2001 1156 2100 1156 2100 1156 2100 1201 200 200 1025 1025 1025 1025 1
₹ ₁	31.128		₹2	34.179				
ź¤ı	121),		٤r ⁵	1333				
	43,588		$\lesssim x_2^2$	51,299				
z x ₁ ² x x ₁ ²	5798•359		E X2 E X2	5737.744				

t value = 1.093

SC IENT IF IC

والمروية المروية المروية	"More S	uccess	ful"	-		"Less	Successi	ful"
Code	Rating	X	X2		Code	Rating	X	x ²
71 151 8 322281 1916 1976 1950 48116 7 349 7250 9977515510 117 -	90.0 93.7 93.2 94.8 94.4 94.1 92.4 95.6 95.7 95.4 95.7 95.4 92.0 95.7 91.8 90.5 92.3 95.2 91.2 97.9 92.7 93.2 97.9 92.7 93.2 97.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.9 92.7 92.7 92.9 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7	2486433988658684523929429148522927846333337677845	576 784 1296 1681 961 1521 900 784 256 3025 784 1296 1444 1681 625 529 2401 1764 1521 196 784 1521 196 784 1521 196 784 1525 484 900 729 961 196 3600 1089 1369 676 729 324 1681 625		9113638409111545981110546796736438421202177430	85.6 88.3 81.16 97.204167711888685.2 87.41531141265608 88.85.44531141265608 88.85.44531141265608	23224322527348555443352099840843347423397451 222322348255443352239840843474233974351 1228	529 529 1681 1089 1681 1225 1884 729 1681 725 1980 1681 725 1980 1521 1150 788 1884 9 788 1884 9 788 1884 9 788 1884 9 789 1529 1529 1529 1529 1529 1529 1529 152
Σ ₁	31.308		<u>x</u> 2	31.487				
Ex1	1221		EX2 EX2 EX2	1228				
E X ₁ ²	42,425		≤x ² 2	41,878				
ξx ₁ ²	4198.30	8	Ex2	3211.7	44			
	t valu	e = 0.0	080					

PERSUASIVE

Code 71	Rating	X	2			•		
71.		А	x ²	Co	de	Rating	X	X
	90.0	49	2401	91		85.6	70	490
156	93•7	46	2116	11	2	88.3	56	313
11	93.2	35	1225	3		83.5	79	624
11 8	92.9	37	1369	64		81.1	17	28
32	94.8	21	441	35		89.6	46	211
124	94.6	55	3025	84		78.9	56	313
126		61						رير 184
	94.4	61 51	3721	10		83.7	43	
81	94.1	21	2601	9	<i>,</i>	85.2	30	90
119	92.4	55 42	3025	10		87.0	46	211
49	98.9	42	1764	11	3	89.4	41	168
115	96.6	73	5329	50		89.1	62	384
69	96.0	71	5041	4		88.6	53	280
100	95•9	39 57	1521	55		82.7	62	384
47	95•7	57	3249	39		85.7	38	1)44
61	95•4	72 57	5184	86		86.1	56	313
89	94.1	57	3249	10		88.1	30	90
95	95.8	73	5329	1		86.8	38	14
104	92.1	73 54 46	2916	70		87.8	37	136
58	91.8	16	2116	85		87.6	41	168
iii	90.6	50	2500	34		86.8	45	202
116	90.5	70	4900	56		86.3	41	168
97	92.0	42	1764	57		86.2	19	36
23	92.3	58	3364	21		86.1	27	136
	92•5 05 0	52	2704	59			37	
94	95.2	52 1.1.	2704	67		85.9	35	122
29	91.2	Цц 55	1936	31		85.8	50	250
27	96.7	22	3025	64		85.4	35 68	122
52	93•2	43	1849	53 98		85.4		462
105	97.1	68	4624	90		84.5	32	102
92	97.9	43 67	1849	24		84.3	15	22
90	94.7	07	<u>44</u> 89	22		83.1	36	129
74	90.2	38	<u></u>	41		83.1	49	240
75	94•7	59	3481	72		82.4	61	372
158	92.5	37	1369	10		82.1	65	422
157	92.9	69	4761	21		81.2	30	90
152	96.7	30	900	11		78.6	46	211
51	95.2	48	2304	37		74.5	34	115
60	90.0	63	3969	44		78.6	40	160
118	99•2	30	900	73		76.0	41	168
7	90.7	42	1764	40		85.8	47	220
		2002	109,488				1727	84,19
<u>x</u> l	51.333		Ī,	44.282				
(x ₁	2002		٤I2	1727				
$\{\mathbf{x}_1^2\}$	109,488		Ex2 Ex2	84,199				
$\{\mathbf{x}_1^2\}$	6718.667		ξr2	7723.898				

t value = 2.259

ARTISTIC

	"More S	uccessf	ul"	- MR Constant, i gan da ya anga sa da	"Less S	uccess	ful"
Code	Rating	X	X2	Code	Rating	X	x ²
7151 8 3226 19916907 189508 116 292927202 9045872 15017	90.0 93.2 92.9 94.4 92.9 94.4 92.9 96.0 95.4 99.9 92.9 92.9 92.9 92.9 92.9 92.9 92	1496124552026888517282131270236141207287494314562	196 361 256 121 576 1225 404 4250 4250 4250 4250 4250 4250 120 289 196 1089 196 1089 625 484 $15,013$	91 12 364 354 10 9 10 15 4 5 9 8 10 17 8 345 5 7 9 7 10 5 38 4 22 4 20 17 7 4 30 9 8 10 9 10 9 10 9 10 9 10 9 10 9 10 9	85.6 88.35 81.16 9.7 83.72 89.4 89.16 87.1 88.8 80.35 89.4 89.7 89.4 89.16 89.4 88.8 80.35 89.4 89.1 89.4 88.8 80.3 21.9 84.31 11412 82.12 81.6 5.8 81.14 82.12 81.14 82.12 81.14 82.12 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81.14 81	4227348422441739212686877750749156166262884 894	1600 484 729 1369 576 64 1849 484 576 1681 121 49 900 114 676 324 256 784 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369 1369
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	711		ź I2	894			
≤x ₁ ≤x ₁ ²	15,013		εx ² εx ²	24,228			
$\{\mathbf{x}_1^2\}$	2050.9	00	< -2	3734.769			

t value = 2.374

LITERARY

ويد فوه التربية	"More Su	ccessfi	1]H		"Less S	uccess	ful"
Code	Rating	X	x ²	Code	Rating	X	x ²
71 15 11 8 22 4 6 19 15 10 7 1 8 11 9 5 0 7 15 10 7 10 7 2 9 2 7 2 0 2 9 7 2 0 2 9 7 2 15 10 2 9 15 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	90.0 93.2 92.9 94.0 92.9 94.0 92.9 92.0 92.9 92.0 92.0 92.0 92.0 92	25 10 5 42 9 8 17 21 55 02 3 44 8 19 02 18 19 44 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 19 14 12 8 00 5 9 6 44 7 00 22 44 7 7 19 8 00 8 8 66 9 44 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 14 19 14 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 19 14 14 14 14 14 14 14 14 14 14 14 14 14	$\begin{array}{c} 625\\ 100\\ 225\\ 576\\ 844\\ 649\\ 1225\\ 9\\ 1425\\ 409\\ 1225\\ 9\\ 1425\\ 409\\ 1225\\ 1200\\ 561\\ 1200\\ 361\\ 1200\\ 576\\ 289\\ 729\\ 1400\\ 324\\ 1296\\ 324\\ 1296\\ 324\\ 1296\\ 324\\ 1296\\ 361\\ 196\end{array}$	91 112 364 3584 10 9101 30 45986 101 708546 57967 31438 24212 217 314340	85.6 88.3 83.5 81.1 89.6 78.9 83.7 85.2 87.0 85.1 85.2 85.1 85.2 85.4 85.4 85.4 85.4 83.1 83.1 83.1 83.1 83.1 83.1 85.6 86.8 86.3 85.4 85.4 85.4 83.1 83.1 83.1 83.1 85.6 86.8 85.4 85.4 85.4 85.4 85.6 85.6 85.6 85.6 85.6 85.6 85.6 85.6	1477827536657658866833066577049730504512160	$196 \\ 289 \\ 49 \\ 64 \\ 400 \\ 729 \\ 225 \\ 169 \\ 1296 \\ 256 \\ 125 \\ 289 \\ 676 \\ 225 \\ 64 \\ 144 \\ 676 \\ 676 \\ 900 \\ 169 \\ 100 \\ 1296 \\ 676 \\ 225 \\ 289 \\ 100 \\ 1296 \\ 676 \\ 225 \\ 289 \\ 100 \\ 576 \\ 81 \\ 289 \\ 529 \\ 400 \\ 576 \\ 21 \\ 144 \\ 64 \\ 256 \\ 140 \\ 100 \\ 576 \\ 21 \\ 144 \\ 64 \\ 256 \\ 140 \\ 100 \\ 576 \\ 25 \\ 144 \\ 64 \\ 256 \\ 140 \\ 100 \\ 576 \\ 25 \\ 144 \\ 64 \\ 256 \\ 140 \\ 100 \\ 576 \\ 25 \\ 144 \\ 64 \\ 256 \\ 140 \\ 100 \\ 576 \\ 25 \\ 144 \\ 64 \\ 256 \\ 140 \\ 100 \\ 576 \\ 25 \\ 144 \\ 64 \\ 256 \\ 140 \\ 100 \\ 576 \\ 25 \\ 140 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 144 \\ 100 \\ 576 \\ 25 \\ 140 \\ 100 \\ 576 \\ 25 \\ 140 \\ 100 \\ 576 \\ 25 \\ 140 \\ 100 \\ 576 \\ 25 \\ 140 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\$
¥	23.128	802	18,676 T	18.564		724	15,668
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٤¤ ٤¤² ٤¤²	802		z_{2}	724			
۲ ۲ <u>1</u>	18,676		Ex2	15,668			
ź X1	2183.590)	Z x 2	2227.590			
	+	- 2 61.0	-				

t value = 2.645

MUSICAL

	More S	uccessf	ul"		"Less S	uccessf	uln
Code	Rating	X	x ²	Code	Rating	X	x ²
71 15 18 32 12 6 19 5 00 7 19 5 10 7 19 5 10 7 19 5 10 7 19 5 10 7 19 5 10 7 19 5 10 7 19 5 10 7 19 5 10 7 10 7 19 5 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10	90.0 93.7 93.2 92.9 94.6 94.1 92.4 92.4 92.4 95.4 95.4 95.4 95.0 92.0 92.2 93.2 95.4 95.4 95.4 95.4 95.2 95.2 95.2 95.2 95.2 95.2 95.2 95.2	92124991479134661172568910496141399115987910175944	$\begin{array}{c} 81\\ 676\\ 144\\ 16\\ 81\\ 196\\ 49\\ 81\\ 196\\ 36\\ 129\\ 484\\ 25\\ 64\\ 81\\ 106\\ 361\\ 256\\ 149\\ 81\\ 125\\ 81\\ 125\\ 81\\ 125\\ 81\\ 125\\ 81\\ 100\\ 289\\ 25\\ 81\\ 100\\ 289\\ 25\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 289\\ 5\\ 81\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\$	91 12 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 354 10 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 35 9112 364 37 97 3164 37 95 365 395 57 97 3164 37 95 59 59 59 59 59 59 59 59 59 59 59 59	85.6 88.3 83.5 81.1 89.9 83.7 85.2 87.0 89.4 85.7 85.2 87.0 89.4 88.6 85.7 88.6 86.3 86.1 88.6 85.4 85.4 83.1 83.1 83.1 82.4 83.1 83.1 83.1 83.1 85.6 85.8 85.4 85.4 85.4 85.4 85.4 85.4 85.4	10 17 18 19 9 10 5 10 2 8 7 8 2 12 6 5 7 17 9 8 5 6 9 7 12 0 9 0 2 3 2 7 18 2 9 9 10 5 10 2 8 7 8 2 12 6 5 7 17 9 19 0 5 10 2 3 2 7 18 2 9 9 10 5 10 5 10 2 8 10 2 8 12 8 12 8 12 12 12 12 12 10 12 8 12 8	$\begin{array}{c} 100\\ 289\\ 324\\ 361\\ 100\\ 25\\ 320\\ 104\\ 649\\ 144\\ 125\\ 29\\ 1289\\ 325\\ 676\\ 191\\ 140\\ 100\\ 984\\ 934\\ 164\\ 9,034\\ \end{array}$
Σ ₁	11.308		X ₂	14.051			
Σx ₁ Σx ² Σx ²	441		₹x ₂	548			
ξx²	5039		ξx22	9034			
Ex2	1052.30		$\leq x_2^2$	1333.898			
	t value	= 2.17	0				

SOCIAL SERVICE

Managara ang kang di Milan (Ca	"More Su	lccessf	ul"		"Less Successful"			
Code	Rating	X	x ²	Code	Rating	X	x ²	
7156 128128195 12916 12916 12917 12918 12919 12918 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 12919 120	90.0 93.2 99.9 99.9 99.9 99.9 99.9 99.9 99.9	615767934350393156829093252606955546564887	3721 4225 2209 5776 3249 2409 5469 5469 5469 5469 5469 4769 4769 4769 4225 3844 3126 3695 40961 31269 4769 43846 31269 32356 2304 29061 31269 40061 34356 34369 40966 23044 29060 23044 29060 23044 29061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 20061 200610000000000	91 22 364 354 10 9 11 50 4 55 98 10 1 70 5 34 57 97 364 38 42 21 20 21 7 74 35 4 30 5 98 10 10 5 98 10 10 5 98 10 10 5 98 10 10 5 98 10 9 11 2 364 5 84 10 9 10 11 50 4 5 98 10 10 5 98 10 10 5 98 10 9 10 5 98 10 9 10 5 98 10 9 10 5 98 10 9 10 5 98 10 9 10 5 98 10 9 10 5 98 10 9 10 5 98 10 9 10 10 5 98 10 9 10 15 98 10 10 10 5 98 10 10 10 10 10 10 10 10 10 10 10 10 10	85.6 88.35 81.9 82.7 83.7 82.7 82.7 82.7 82.7 82.7 82.7 82.7 82	6365266554554477666564554453158776855572276567625	3969 4356 3481 784 4096 2916 3481 2116 1764 5041 5041 5041 5041 5041 5049 3721 3249 4096 2916 3025 1849 1681 3481 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4681 3025 4680 2500 2809 5184 2500 2809 5184 2704 5329 3600 2916 3969 5776 3814 2601	
7	61.179	2386	Щ8,836 ▼	58.436		2279	137,991	
<u>π</u> Σπ	2386		₹ ₂ ≤x	2279				
< ۲ <u>2</u>	148,836	5	Ex2 Ex2	137 , 991				
≤x ² ≤x ²	2861.7		< <u>~</u> 2 {x2	4815.590				
<u>~1</u>	·	•	_					

t value = 1.205

CLERICAL

 "Less	Success

"More Successful"						"Less Successful"		
Code	Rating	X	x ²	Co	ode	Rating	X	x ²
71 156 12 22 12 19 15 10 10 10 10 10 10 10 10 10 10 10 10 10	90.0 93.7 92.9 94.4 94.1 92.9 96.0 95.7 95.4 92.9 92.3 92.2 92.9 92.9 92.9 92.9 92.9	59551598229506326999626285 98 5545445722998431726 595515982295506326999626285 98 5545445722998431276 59	3025 1521 3025 2601 1225 900 784 2704 2704 2704 2704 2704 2704 1024 1024 1024 1024 1024 1024 1024 10	91 36 35 81 10 91 11 50 4 59 86 10 1 70 8 35 57 59 36 57 8 21 22 47 21 10 11 50 4 59 86 10 1 70 8 35 57 59 10 10 10 10 10 10 10 10 10 10 10 10 10		85.6 88.3 83.5 81.1 89.6 78.9 85.2 87.0 89.4 88.6 85.7 88.1 87.6 86.3 86.3 86.3 86.3 86.3 85.4 85.4 83.1 81.2 78.6 74.5 78.0 85.8	3412456637534235444672792572235668145723262417618 1612	1156 1681 576 2500 2116 2025 2116 3969 3249 1225 1849 576 1296 3249 1764 2209 2401 3844 1225 2209 1764 1369 1764 1369 1225 256 676 1444 2601 1156 625 1369 1024 3844 1681 729 3721 2304 71,640
₹ ₁	39.821		x ₂ ξx ₂ ξx ² ξx ² 2	41.333				
5x1	1553		٤x2	1612				
≤x <u>1</u> ≤x2	68,443		₹x ²	71,640				
5 x 2	6601.744		ξx ²	5010.667				
t value = 0.541								