



THE DEGREE OF ACTIVENESS OF CERTAIN
PERSONALITY NEED-STATES IN WOMEN
AND THEIR RELATIONSHIP TO UNIVERSITY
GRADE POINT AVERAGE

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ABSTRACT

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by Carolyn Sue Green

The adult personality has been conceptualized by several authors as being the result of the individual's perceptions of experiences with animate and inanimate objects. It has been proposed that the perceptions of experiences are based on the individual's need-states. Therefore, the degree of fulfillment of a particular need-state is seen as a directive force in the individual's perception of the situation, and his consequent reaction to the situation.

The purpose of this study was to investigate "the adult end product" (upper division students at Michigan State University) in terms of certain personality needs as delineated in the H. A. Murray theory of personality and measured by the Group Personality Projective Test, and to investigate how these needs relate to the student's level of achievement.

The total sample included 73 Caucasian, female, upper division Home Economics students at Michigan State University. The Group Personality Projective Test, developed by Cassel and Kahn in 1958, was used to assess the

need-state activeness present at the time of testing.

The Michigan State University grade point average for each student in the sample was used as a measure of the student's achievement.

Based on a regression analysis (performed by the Michigan State University 3600 computer) to ascertain the relationships between the activeness of the need-states as measured by the Group Personality Projective Test to one another and to grade point average, it can be stated that this study supports the notion that the activeness of personality needs has little, if any, effect on academic achievement in a university setting. This conclusion, however, has been drawn from a statistical analysis in which the standard errors of the regression coefficients and beta weights have been relatively high. To state the conclusion in terms of a practical application, the magnitude of the standard errors is large enough that by using the results of this study as the norm, no accurate prediction of the activeness of any of the need states as measured by the Group Personality Projective Test, or of grade point average, could be attempted for another sample.

Instead of identifying significant relationships between certain need-states and between these need-states and grade point average, the research has served as a validation study of the Group Personality Projective Test.

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By

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TABLE OF CONTENTS

	Page
LIST OF TABLES.	iv
LIST OF GRAPHS.	v
CHAPTER	
1 INTRODUCTION.	1
Purpose of the Study	
Definitions of Terms	
Assumptions	
Hypotheses	
2 REVIEW OF THE LITERATURE.	6
3 METHODOLOGY	13
The Sample	
The Instrument	
Collection of the Data	
4 ANALYSIS OF THE DATA.	24
5 THE RESULTS OF THE STUDY.	32
Results of the Descriptive Analysis of the Data	
Results of the Statistical Analysis of the Data	
6 SUMMARY, CONCLUSIONS AND IMPLICATIONS	53
BIBLIOGRAPHY.	59
APPENDIX.	61

LIST OF TABLES

Table	Page
1 Delineation of the Sample	14
2 Reliability of Group Personality Projective Test.	18
3 Validity Coefficients and Beta Weights for Discriminating Between Unselected Normal High School Students and Youths Currently Committed to a Correctional Institution . . .	20
4 Distribution of Grade Point Average	26
5 A Rank Ordering of the Total Scores	32
6 A Distribution of the Total Scores Received by Each Student and His Corresponding Grade Point Average	41
7 Simple Correlations of Unaltered Data	43
8 Regression Coefficients and Beta Weights of Unaltered Data.	46
9 The Degree to Which the Standard Error is Reflected in the Regression Values and Beta Weights of Each of the Scores (in the analysis of the unaltered data) as Measured by the Group Personality Projective Test. . .	48
10 Simple Correlations of Altered Data	49
11 Regression Coefficients and Beta Weights of Altered Data.	51
12 The Degree to Which the Standard Error is Reflected in the Regression Values and Beta Weights of Each of the Scores (in the analysis of the altered data) as Measured by the Group Personality Projective Test. . .	52

LIST OF GRAPHS

Graph	Page
1 Example of Student's Answer Sheet Including the Notation of the Actual (unaltered) Scores as Submitted to the M.S.U. 3600 Computer.	30
2 Example of Student's Answer Sheet Including the Notation of the Actual (altered) Scores as Submitted to the M.S.U. 3600 Computer. . .	31
3 The Relationship of Total Score to Grade Point Average	35
4 The Relationship of Nurturance Scores to Grade Point Average	36
5 The Relationship of Affiliation-Psychosexual Scores to Grade Point Average	37
6 The Relationship of Affiliation-Psychosexual Scores to Nurturance Scores	40
7 A Tabulation of the Non-normal Scores and Non- average Grade Point Averages for Each Student in the Sample	62

CHAPTER 1

INTRODUCTION

"The development of any individual," wrote McCandless, "depends upon how he sees and reacts to the socializing forces of the culture of which he is a member. But what are the forces and the perceptions within him, as an individual, that cause him to respond in one way or another to these forces on the outside?"¹

McCandless has identified two broad theoretical orientations to the socialization processes. Freudian and social learning theory, together comprising one group, have suggested that the organism is shaped by its experiences. The second broad strand of socialization theory has proposed that "the forces of growth and development within the organism are creative. . . ."² Although the first group, in general, indicated that learning results from an individual's "insight," a reaction to experience, and the second, that it arises from internal, creative forces of growth and development, both theories proceeded from a common premise. Both theories agree that, "The adult end-product is a direct

¹Boyd R. McCandless, Children and Adolescents (New York: Holt, Rinehart and Winston, Inc., 1962), p. 322.

²Ibid., p. 322.

function of the teaching forces of the family and the environment as a child perceives them and as they affect them."³

Purpose of the Study

The purpose of this study was to investigate the "adult-end-product" (upper division students at Michigan State University) in terms of the activeness of certain personality needs as measured by the Group Personality Projective Test and how these needs relate to the students' level of achievement.

Definitions of Terms

The definitions of terms as operationalized in this study were:

1. The general functions of personality--"are to exercise its processes, to express itself, to learn to generate and reduce insistent need-tensions, to lessen or resolve conflicts by forming schedules which more nearly permit the frictionless appeasement of its major needs."⁴
2. Need--"A need is a construct (a convenient fiction or hypothetical concept) which stands for a force . . . in the brain region, a force which organizes perception, apperception, intellection, conation, and action in such a way as to transform in a certain direction an existing, unsatisfying situation. A need is sometimes provoked directly by internal processes of a certain kind . . . but, more frequently (when in a state of readiness) by the occurrence of one of a few commonly effective press (environmental forces). . . . Thus it manifests itself

³Ibid., p. 322.

⁴Calvin S. Hall and Gardner Lindzey, Theories of Personality (New York: John Wiley and Sons, Inc., 1957), p. 165.

by leading the organism to search for or to avoid encountering or, when encountered, to attend and respond to certain kinds of press. . . . Each need is characteristically accompanied by a particular feeling or emotion and tends to use certain modes . . . to further its trend. It may be weak or intense, momentary or enduring. But usually it persists and gives rise to a certain course of overt behavior, which . . . changes the initiating circumstance in such a way as to bring about an end situation which stills (appeases or satisfies) the organism.⁵

3. The Group Personality Projective Test--The Group Personality Projective Test was developed by R. N. Cassel and T. C. Kahn and published by The Psychological Test Specialists in 1960. The test measured the amount of tension projected at the time of the test, the degree of activeness of five needs as identified by H. A. Murray, and total score.
4. Need State Activeness--Need State Activeness is the intensity of a projected need as measured by the Group Personality Projective Test. Each of the five area scores of the Group Personality Test which include Nurturance, Withdrawal, Neuroticism, Affiliation-Psychosexual Needs and Succorance, represents a separate need state area. In general, where the standardized T-score⁶ is above 60, an acute and chronic need state activeness is indicated; when the standardized T-score is below 40, one of two conditions is presumed to be present: (1) adequate satisfaction with need-state dormant, or (2) regression or immaturity in the respective need area.⁷

⁵Ibid., p. 172.

⁶T-score--a weighted score calculated for unselected normal students to which each sub-score on the Group Personality Projective Test can be converted for the purpose of comparison.

⁷R. N. Cassel and T. C. Kahn, "The Group Personality Projective Test (GPPT)," Psychological Reports, 8 (1961), p. 39 (Monograph Supplement 1-V8, 1961).

5. Achievement--Achievement was the attained level of proficiency of a student as evidenced by his grade point average as assessed by Michigan State University.

Assumptions

1. The Group Personality Projective Test was a valid and reliable instrument.
2. The University grade point average was an accurate and reliable measure of student achievement.
3. The Michigan State University 3600 Computer performed an accurate statistical analysis of the data.

Hypotheses

1. The mean grade point average for students scoring above 57 or below 37 on the Total Score as measured by the Group Personality Projective Test is the same as the mean grade point average for students scoring between 37 and 57.
2. For upper division, female, Caucasian, Michigan State University, Home Economics students:
 - A. No significant relationship exists between the Tension Reduction Quotient and (1) Nurturance, (2) Withdrawal, (3) Neuroticism, (4) Affiliation-Psychosexual Needs, (5) Succorance, and (6) Total Score as measured by the Group Personality Projective Test.
 - B. No significant relationship exists between Nurture and (1) Withdrawal, (2) Neuroticism,

(3) Affiliation-Psychosexual Needs, (4) Succorance, and (5) Total Score as measured by the Group Personality Projective Test.

- C. No significant relationship exists between Withdrawal and (1) Neuroticism, (2) Affiliation-Psychosexual Needs, (3) Succorance and (4) Total Score as measured by the Group Personality Projective Test.
- D. No significant relationship exists between Neuroticism and (1) Affiliation-Psychosexual Needs, (2) Succorance, and (3) Total Score as measured by the Group Personality Projective Test.
- E. No significant relationship exists between Affiliation-Psychosexual Needs and (1) Succorance, and (2) Total Score as measured by the Group Personality Projective Test.
- F. No significant relationship exists between Succorance and Total Score as measured by the Group Personality Projective Test.
- G. No significant relationship exists between grade point average as assessed by Michigan State University and (1) the Tension Reduction Quotient, (2) Nurturance, (3) Withdrawal, (4) Neuroticism, (5) Affiliation-Psychosexual Needs, (6) Succorance, and (7) Total Score as measured by the Group Personality Projective Test.

CHAPTER 2

REVIEW OF THE LITERATURE

A review of the literature revealed a dearth of research findings which focused on the integration and subsequent adjustment or level of activeness of adult personality needs as delineated by the H. A. Murray theory of personology. Likewise, few studies were located which investigated the relationship between degree of activeness of personality needs and level of academic achievement. The findings of Lange, from "A Comparative Analysis of Achieving and Underachieving Twelfth Grade Students of Phoenix Central High School on the Non-Intellectual Factors of the Group Personality Projective Test and the Test of Social Insight," indicated that the non-intellectual factors of personality needs are related to a student's level of achievement. In the Lange study, established groups of high school achievers and underachievers were tested on the Group Personality Projective Test and on the Test of Social Insight to determine whether either one or both of the instruments would differentiate between the two groups. It was concluded that both the Group Personality Projective Test and the Test of Social Insight differentiated between the established groups of achievers and underachievers.

Knowledge based on inference from statements of

observation and from research findings indicates the plausibility of the interrelationships of certain personality need states and their relationship to academic achievement. Although the concept of need is widely used in psychology, Murray's analysis is reported by Hall and Lindzey " . . . to be the most carefully conducted and the most complete taxonomy of needs of any theorist."¹ "Murray stated that the existence of a need can be inferred on the basis of: (1) the effect or end result of the behavior, (2) the particular pattern or mode of behavior involved, (3) the selective attention and response to a particular class of stimulus objects, (4) the expression of an emotion of affect, and (5) the expression of satisfaction when a particular effect is achieved or disappointment when the effect is not achieved."² "It is evident," wrote Hall and Lindzey in their review of the Murray theory of personology, "that needs do not operate in complete isolation from each other and the nature of this interaction or mutual influence is of crucial theoretical importance."³ Inherent in Murray's framework is the assumption that the individual's perception and interpretation of environmental objects, whether or not they exist in reality, is reflected in the activeness of certain

¹Hall and Lindzey, op. cit., p. 172.

²Ibid., p. 172.

³Ibid., p. 177.

need states as he has delineated them.

In chapter one it was noted that McCandless has delineated two broad theoretical orientations to the socialization processes. "Each of these subscribes to the idea that the adult end product is a direct function of the teaching forces of the family and the environment as the child perceives them and as they affect him."⁴ Marmor reported that "the dynamics of the American Culture have brought about many changes in our patterns of family living and have fundamentally affected (the interpersonal relations of family life)."⁵ A survey of the areas of human development on which family relationships leave their mark has been presented by Hurlock. The widespread influence of family relationships on the development of the child include:

1. Family Influence on the Child's Personality

"As Teagarden⁶ pointed out, 'All manner of behavior deviations can be, and often are, accounted for by the subtleties of home relationships.'"⁷ Hurlock quoted studies

⁴McCandless, op. cit., p. 322.

⁵J. Marmor, "Psychological Trends in American Family Relationships," Journal of Marriage and Family Living (1951), 13:145-147.

⁶F. M. Teagarden, Child Psychology for Professional Workers, rev. ed. (Englewood Cliffs, N.J.: Prentice-Hall, 1946).

⁷Elizabeth B. Hurlock, Child Development (New York: McGraw-Hill, 1964), p. 652.

by Koppitz,⁸ Rexford and Van Ameroghen,⁹ and Serot and Teevan¹⁰ which reported findings that give support to the observable influence of family relationships on the developing personality. "Favorable family relations," wrote Hurlock, " . . . lead to a healthy self concept and good personal and social adjustments. (Also), it has been found that children's motivations are similar to those of their parents. . . ."¹¹ The importance of family relationships to the child's developing personality is not overshadowed by the dominance, with the increasing age of the child, of the peer group influence.¹²

2. Family Influence on Adjustments Outside the Home

"The child learns through family relationships, especially relationships with the parents, to conform to group standards, mores, and traditions, and to cooperate with others."¹³ Hurlock reported that studies by Freeman and

⁸E. M. Koppitz, "Relationships Between Some Background Factors and Children's Interpersonal Attitudes," Journal of Genet. Psychology (1957), 91:119-129.

⁹E. N. Rexford and S. T. Van Amerogen, "The Influence of Unsolved Maternal Oral Conflicts upon Impulsive Acting Out in Young Children," American Journal of Orthopsychiatry (1957), 27:75-87.

¹⁰N. M. Serot and R. C. Teevan, "Perception of the Parent-child Relationship and its Relation to Child Development," Child Development (1961), 32:373-378.

¹¹Hurlock, op. cit., p. 653.

¹²Ibid., p. 653.

¹³Ibid., p. 653.

Showell,¹⁴ Livson and Mussen,¹⁵ and Mummery¹⁶ support the following generalizations: (a) the child develops patterns of social behavior similar to those of his parents, (b) the aggressiveness of the child depends largely on how he is treated in the home, and (c) home environments marked by discord, severe punishment, and autocratic rule promote socially unacceptable modes of aggression.

3. Family Influence on School Success

"Although authorities generally agree that a person's academic success is not guaranteed by his apparently adequate capabilities, there does seem to be some agreement that academic success is dependent upon certain non-intellectual factors. . . ." ¹⁷ In the case of the developing child, Hurlock wrote, " . . . the child's performance in school is adversely affected by poor relationships between him and his parents and other family members." ¹⁸ Studies

¹⁴H. E. Freeman and M. Showell, "The Role of the Family in the Socialization Process," Journal of Social Psychology (1953), 37:97-101.

¹⁵N. Livson and P. H. Mussen, "The Relation of Ego Control to Overt Aggression and Dependency," Journal of Abnormal Social Psychology (1957), 55:66-71.

¹⁶D. V. Mummery, "Family Backgrounds of Assertive and Non-assertive Children," Child Development (1954), 25: 63-80.

¹⁷Merle LeRoy Lange, "A Comparative Analysis of Achieving and Underachieving Twelfth Grade Students of Phoenix Central High School on the Non-Intellectual Factors of the Group Personality Projective Test and the Test of Social Insight," An unpublished doctoral thesis, Colorado State College, 1962, p. 26.

¹⁸Hurlock, op. cit., p. 653.

by Medinnus,¹⁹ Hoffman, Rosen and Lippitt,²⁰ Wallach, Ulrich and Grunebaum,²¹ as quoted by Hurlock, point out the deleterious effects of parental overprotection, parental rejection, marital discord, and low parental regard for education or the child's progress in school.

4. Family Influence on the Child's Success in Adult Life

The position of the child in the family and his relationship with the members of his family, wrote Hurlock in a review of Allen,²² "have a great deal to do with his success in later life."

Sullenger, in Social Determinants of Juvenile Delinquency, gave further support to the McCandless generalization that " . . . the adult end product is a result of the teaching forces of the family and the environment as the child perceives them and as they affect them."²³

¹⁹G. R. Medennus, "The Relation Between Several Parent Measures and the Child's Early Adjustment to School," Journal of Educational Psychology (1961), 52:153-156.

²⁰L. W. Hoffman, S. Rosen, and R. Lippitt, "Parental Coerciveness, Child Autonomy, and Child's Role at School," Sociometry (1960), 23:15-22.

²¹M. A. Wallach, D. N. Ulrich, and M. B. Grunebaum, "Relationship of Family Disturbance to Cognitive Difficulties in a Learning-Problem Child," Journal of Consultant Psychology (1960), 24:355-360.

²²P. J. Allen, "Childhood Backgrounds of Success in a Profession," American Sociological Review (1955), 26: 186-190.

²³McCandless, op. cit., p. 322.

Sullenger has suggested that the process of human development is influenced by the total environment. "The human machine," as Sullenger conceptualized it, "moves in response to (its perception of) outside stimulants regardless of what they are."²⁴

Research findings and inferences from related studies and observations indicated the need for research to ascertain the relationships between specific personality need-states, as described by H. A. Murray, and between the delineated personality needs and academic achievement.

²⁴T. Earl Sullenger, Social Determinants in Juvenile Delinquency (New York: John Wiley and Sons, Inc., 1936), p. 3.

CHAPTER 3

METHODOLOGY

Chapters 1 and 2 are concerned with the statement of the research problem and the review of the literature. Chapter 3 is concerned with the selection of the sample, the selection of the instrument, and the collection of the data.

The Sample

The sample consisted of a subgroup of the upper division students in the College of Home Economics at Michigan State University, namely, the students enrolled in Home Economics 401, Fall Term, 1965. Each of the 75 students had accumulated a minimum of 85 credits and was considered by University standards to have attained at least junior standing. Of the 75 students, 14 were juniors (85-129 credits earned inclusive); and 61 of the students were seniors (130-up credits earned). The students represented all but two of the undergraduate majors in Home Economics at Michigan State University (Table 1).

The selection of this sample was based on the assumption that the grade point averages of upper division students tend to be more stable than those of lower division students due to: (a) grade point average being computed

from an accumulation of at least 85 credits, (b) the increasing specialization in the major area by the students, and (c) the initial adjustment in the role of university student being accomplished.

Due to the occurrence of only one male student in the sample and only one student from non-Caucasian racial stock, the study population was limited to 73 Caucasian, female, upper division Home Economics students.

Table 1
Delineation of the Sample

Majors	Number	Percent of class, fall term, 1965	Percent of class, academic year 1964-1965
Home Economics Teaching	27	32	33
Interior Design	24	28	8
Retailing	16	19	19
Child Development and Teaching	4	5	16
General Home Economics	3	4	4
Home Economics and Communication Arts	3	4	.05
Home Economics Extension	3	4	1
General Clothing and Textiles	3	4	2
Foods	1	1	2
Research in Foods and Nutrition	1	1	.05
Dietetics	0	0	10
Institutional Adminis- tration	0	0	1

The Instrument

The Group Personality Projective Test (hereafter referred to as the GPPT; see Appendix for test form) was utilized for the collection of the data. The GPPT, developed by R. N. Cassel and T. C. Kahn, "is concerned with assessing the amount of anxiety-producing tension, and the degree of activeness of certain psychological needs that are present in the individual at the time the test is taken."¹

The human personality was assumed by Cassel and Kahn to be defined as consisting of three layers: "(a) the outer layer--the mask one wears in relation to others, (b) the middle layer--the mask one wears in relation to self, and (c) the deeper layer--symbolic content."² This definition, as stated by Cassel and Kahn, was taken from H. A. Murray's personology, a theory of personality.

The GPPT, designed to measure the middle layer of human personality, consisted of seven scales. The test objective, to assess the amount of anxiety-producing tension projected at the time of testing, was represented in the first scale, the Tension Reduction Quotient. The Tension Reduction Quotient was determined through the evaluation of two sub-scales, Happiness and Dejection. The degree of activeness of certain psychological needs that are

¹Cassel and Kahn, op. cit., pp. 23-41.

²Ibid., p. 38.

present at the time of testing was assessed through five scales, Nurturance, Withdrawal, Affiliation-Psychosexual, Neuroticism, and Succorance. The names given to each of the seven scales, the two sub-scales, and a brief statement of the intent of each follow.

1. Tension Reduction Quotient (TRQ)

"Score serves as an index of the amount of anxiety-producing tension present in the individual at the time of testing. It represents the proportion that negative feelings projected by the subject are of total negative plus positive feelings."³

2. Nurturance (NURT)

"Score is indicative of a need to play a father role, including volunteering and giving aid to others."⁴

3. Withdrawal (WITH)

"Score serves as an indicator of the subject's needs to avoid or escape activity in the group, and to avoid personal and social responsibility."⁵

4. Neuroticism (NEU)

"Score represents the degree to which the subject is able to arrive at sound and timely decisions, or needs to remain indecisive."⁶

5. Affiliation and Psychosexual Needs (AFF)

"Two separate but related types of need are included in this score: (a) affiliation need or need to belong, and (b) psychosexual, or need for boy-girl relationships."⁷

³Ibid., p. 39.

⁴Ibid., p. 39.

⁵Ibid., p. 39.

⁶Ibid., p. 40.

⁷Ibid., p. 40.

6. Succorance (SUCC)

"Scale indicates both (a) a need to seek aid and play an infant role, and (b) general distrust of others."⁸

7. Total Score (TOTAL)

"Serves as an index of general level of emotional disturbance. It can indicate degree of anxiety-producing tension present and general level of need activeness at the time of the test."⁹

Sub-Scales

1. Happiness (HAP)

"Scale indicates the total number of positive feelings."¹⁰

2. Dejection (DEJ)

"Scale indicates the total number of negative feelings."¹¹

The selection of the GPPT was based on the test's ability to meet three criteria: (a) reliability, (b) validity, and (c) fakability. As reported by Cassel and Kahn, in Table 2, the reliability coefficients based on a test-retest system for a variety of groups are above .500, with medians of .625 for high school students, .678 for cadets, .604 for WAF's, .596 for neuropsychiatric patients, and .567 for youths in correctional institutions. An odd-even assessment of reliability indicated coefficients in the .400's. For the total score, all reliabilities were above .600.

⁸Ibid., p. 40.

⁹Ibid., p. 40.

¹⁰Ibid., p. 38.

¹¹Ibid., p. 38.

Table 2

Reliability of Group Personality Projective Test

Groups	N	Scales					Total	
		Ten- sion	Nurtur- ance	With- drawal	Neurot- icism	Affili- ation		Succor- ance
Unselected Normal High School Students (both sexes)								
Odd-even Items*	300	.658	.250	.532	.602	.623	.721	.813
Test-retest**	300	.782	.659	.558	.553	.592	.752	.850
USAF Pre-flight Cadets (Males)								
Odd-even Items	200	.579	.314	.425	.632	.594	.704	.634
Test-retest	200	.735	.711	.517	.645	.600	.714	.799
USAF Women Basics (WAF)								
Odd-even Items	100	.810	.433	.450	.543	.361	.411	.835
Test-retest	100	.673	.400	.610	.598	.577	.780	.753
Neuro-psychiatric Patients (both sexes)								
Odd-even Items	200	.471	.319	.489	.539	.489	.639	.588
Test-retest	200	.511	.444	.592	.712	.613	.600	.665
Correctional Institution Youth (both sexes)								
Odd-even Items	300	.513	.399	.610	.582	.399	.732	.618
Test-retest	300	.489	.411	.645	.666	.413	.665	.659

*Pearson r_s with Spearman-Brown correction.**Pearson r_s .

The validity coefficients and beta weights for discriminating between unselected normal high school students and youth currently committed to a correctional institution, as reported by Cassel and Kahn, appear in Table 3. Since the Pearson product moment coefficients between the two sets of Total Scores for the population was .918, the authors suggested that, "the beta weights for discrimination between unselected normal subjects and neuropsychiatric patients are probably equally valid and significant for discriminating between unselected normal and delinquent youth; also, the converse is true."¹² Cassel and Braucle, in "An Assessment of the Fakability Scores on the Group Personality Projective Test," stated that the GPPT is empirically validated.¹³ It was also noted that, "It is relatively difficult to make choices to obtain desirable personality profiles."¹⁴

Consideration of the GPPT as an instrument for this study also included study of projective techniques--their advantages and disadvantages. Fred J. Goldstein has listed some assumptions which are basic to projective techniques. They included:

1. We assume that the person taking the test is

¹²Ibid., p. 32.

¹³Ibid., p. 38.

¹⁴Ibid., p. 38.

Table 3

Validity Coefficients and Beta Weights for Discriminating Between Unselected Normal High School Students and Youth Currently Committed to a Correctional Institution (N = 400; 200 "Normals"; 200 Delinquents)

GPPT Variables	Variables*						Regression Values	Beta Wt./σ	Beta Wt.
	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇			
X ₂ Tension (TRQ)	1000						-266	-0015	11
X ₃ Nurture	188	1000					-367	-1037	1
X ₄ Withdrawal	-090	083	1000				169	0625	17
X ₅ Neuroticism	122	056	-293	1000			178	0380	15
X ₆ Affiliation	-181	-354	-398	035	1000		050	0000	00
X ₇ Succorance	-025	-389	-223	-314	268	1000	-062	0242	9

*rs of .128 and larger are significant at .01 level; .098 at .05 level.

revealing his own strivings, dispositions, and conflicts.

2. Recurrent themes or perseverative trends are particularly apt to mirror the impulses and affects of the storyteller or person being tested.
3. Greater unstructuredness elicits more unconscious and dynamic material.
4. Tests seem to be responsive to both situational and enduring aspects of personality.
5. Projective material gets at unconscious material that cannot be obtained through other direct methods such as the questionnaire, direct interview, etc.¹⁵

"One of the greatest advantages to the projective technique," suggested Campbell, "is one of freedom, rather than of disguise."¹⁶ "Projective techniques are relatively immune to attempts to conceal or modify personality facets under scrutiny."¹⁷ They also are "a means of appraising the individual personality as a unitary configuration."¹⁸

It has been noted by several writers, however, that there are many difficulties associated with the increased use of projective techniques. "The variety and richness

¹⁵Fred J. Goldstein, "Custom-Made or Store Bought Projective Techniques? What Do They Represent?" Journal of Projective Techniques (1961), 25:11-20.

¹⁶D. T. Campbell, "The Indirect Assessment of Social Attitudes," Psychological Bulletin (1959), 56:160.

¹⁷Robert I. Watson, The Clinical Method in Psychology (New York: John Wiley and Sons, Inc., 1963), p. 394.

¹⁸Ibid., p. 404.

of material which the projective methods provide," wrote Sargent, "is at once the delight of the clinician and the despair of the experimentalist. The research worker who attempts to use any of these methods is immediately impressed with the infinite possibilities for interpretation and insight, and seemingly insurmountable difficulties in the way of scientific treatment of the data."¹⁹

The GPPT appeared to utilize the positive aspects of projective techniques while at the same time to eliminate some of the negative qualities. More explicitly, the GPPT was designed to measure the middle layer of personality--the mask one wears in relation to self. Apparent immunity to a subject's concealment or modification of personality facets under scrutiny was noted as an advantage of the GPPT. A system of scientific treatment of the data was inherent in the GPPT. The GPPT was a forced choice test. Each subject was required to choose the one answer among five that accompanied a line drawing in each of ninety questions. Scoring schemas and weighting codes prepared by Cassel and Kahn eliminated the need for extensive interpretation by the experimenter.

The major disadvantage, however, of the GPPT was believed to be the forced choice answers. In the pure sense,

¹⁹Helen Sargent, "Projective Methods: Their Origins, Theory, and Application in Personality Research," Psychological Bulletin (1945), 42:269.

the GPPT was not a projective test in that the subject did not have the opportunity to interpret the line drawings without limitations. Being required to decide which of the five possible answers was the closest to the subject's own feelings somewhat limited the extent of the projection.

Collection of the Data

The data were collected by administering the GPPT in a regularly scheduled Home Economics 401 class on November 2, 1965. The preparation of the raw data for analysis included scoring the answers, computing the Total Scores and the Tension Reduction Quotients, and plotting the scores on the answer sheet graph.

CHAPTER 4

ANALYSIS OF THE DATA

The descriptive analysis of the data included a rank ordering of the total scores calculated for each student in the sample. The rank ordering of the total scores (Table 5) indicated the spread of the scores. It also indicated the relative position of the total scores to the norms established by Cassel and Kahn as a numerical index of the general level of emotional disturbance of the testee. As described by Cassel and Kahn, the total score "can indicate degree of anxiety-producing tension present and general level of need activeness at the time of the test. A total score that is excessively high (total score above 57) suggests poor mental health, while an excessively low score (total score below 37) indicates general emotional immaturity."¹

Scatter diagrams which plotted selected variables to effect a pictorial tabulation of the data were also prepared. As a descriptive technique, the scattergrams gave a preliminary analysis to the statistical computations of the relationships between variables. The variables that

¹Cassel and Kahn, op. cit., p. 40.

were selected to diagram were: (1) Nurturance, (2) Affiliation-Psychosexual, and (3) Total Score, each versus GPA; and Affiliation-Psychosexual versus Nurturance (Graphs 3-6).

A third descriptive technique applied to the data for each student was the tabulation of the scores which were either above or below the scores indicative of a normal personality (above or below the standardized T score range of 40-60), as described by Cassel and Kahn. The 73 students in the sample were then rank ordered according to grade point average from low to high as defined by the University standards which follow. Grade point average at Michigan State University is calculated on the following scale: A equals 4.00, B equals 3.00, C equals 2.00, D equals 1.00 and F equals zero. Average grade point is determined by dividing the total points earned by the total credits carried. The grade point averages utilized in this tabulation were those between 1.95 and 2.17, and between 2.67 and 3.81. The grade point averages from 1.95-2.17 comprised the bottom 25 percent of the distribution of grade point averages (Table 4) and were assigned the value of low. The top 25 percent of the distribution of the grade point averages which ranged from 2.67 to 3.81 was assigned the value of high. The tabulation of Graph 7 was conducted in such a way as to outline and compare individual scores on the dimensions of the GPPT to a low (1.95-2.17) or high (2.67-3.81) level of academic achievement. The mean number of

Table 4

Distribution of Grade Point Average

Grade Point Average	Number of Students
1.95	1
2.00	2
2.01	1
2.02	2
2.03	3
2.04	3
2.05	1
2.08	1
2.09	1
2.11	1
2.13	1
2.16	1
2.17	1
25% of class	
2.18	2
2.20	2
2.21	2
2.22	2
2.28	3
2.31	1
2.34	2
2.36	3
2.37	1
50% of class (median)	
2.37	1
2.39	1
2.42	1
2.43	1
2.44	1
2.47	2
2.48	1
2.49	1
2.54	2
2.59	2
2.62	2
2.63	1
2.65	1
75% of class	
2.67	2
2.69	1
2.74	2
2.81	1
2.85	1
2.93	1
2.99	2

Table 4 (continued)

Grade Point Average	Number of Students
3.03	1
3.19	2
3.33	1
3.51	1
3.52	1
3.59	1
3.61	1
3.81	1

non-normal scores received were calculated from Graph 7 in each of the following instances:

1. Where a high score on any of the need states was accompanied by a low grade point average, as described above.
2. Where a low score on any of the need states was accompanied by a low grade point average, as described above.
3. Where a high score on any of the need states was accompanied by a high grade point average, as described above.
4. Where a low score on any, some or all of the need states was accompanied by a high grade point average, as described above.

The purpose of each of the three descriptive techniques was to provide a pictorial analysis of the data in an effort to identify possible patterning of the scores.

Mean grade point averages were determined for the

students whose total GPPT scores were above 57, for those between 37 and 57, and for those below 37. The means are reported in Table 6.

A statistical analysis of the data was conducted to ascertain the relationship of each of the variables measured by the GPPT to one another and to grade point average. The Michigan State 3600 Computer was utilized for the computations. The computations performed by the computer as programmed into a problem of the sum of the least squares were simple correlations, regression coefficients, beta weights, and standard errors of coefficients and beta weights of the variables.

The degree of mutual relation of each of the variables to one another and to grade point average was provided by the simple correlations. According to Travers, "The multiple regression technique was performed to ascertain the regression coefficients, beta weights and standard errors of coefficients and beta weights. The multiple regression technique involves the determination of the best method of combining two or more measures in order to predict a criterion."² Also, "The best combination for a particular sample," wrote Travers, "takes advantage of any peculiarities that make one set of weights more effective than another."³

²Robert M. W. Travers, An Introduction to Educational Research (New York: Macmillan, 1964), p. 378.

³Ibid., p. 378.

The data were submitted to the computer twice. The program of the sum of the least squares was utilized in both instances. A manipulation of the data deck which contained the raw data for each student in the sample constituted the variance between the two analyses. In the first running of the data through the 3600 computer, the data for each student, which consisted of the seven variables measured by the GPPT and grade point average, were presented in actual scores as recorded on each student's answer sheet (Graph 1).

Manipulation of the data for the second analysis consisted of a weighting of each score measured by the GPPT for each student in an effort to produce a profile of the sample. The weighting followed the following schema:

1. If a student scored above the standardized T score of 60 on any, some or all of the seven variables, each score in this range was given the value of three.

2. If a student scored between the standardized T score of 40-60 on any, some or all of the seven variables, each score in this range was given the value of two.

3. If a student scored below the standardized T score of 40 on any, some or all of the seven variables, each score in this range was given the value of one (Graph 2).

Graph 1

Example of Student's Answer Sheet Including the Notation
of the Actual (unaltered) Scores as Submitted
to the M.S.U. 3600 Computer

T Score	TRQ	NURT	WITH	NEU	AFF	SUCC	TOTAL	T Score
80	57	17	20	30	33	21	79	80
75	52	16	19	28	32	19	71	75
70	48	15	18	27	29	17	69	70
65	43	13	17	25	28	15	65	65
60	34	12	15	23	27	13	57	60
55	29	11	13	20	25	10	51	55
50	23	10	11	18	23	8	46	50
45	17	8	10	15	20	7	41	45
40	9	7	9	13	18	5	37	40
35	5	6	7	12	16	3	29	35
30	3	5	6	10	14	2	24	30
25	2	4	5	8	12	1	20	25
20	1	2	4	6	10	0	15	20
	17	11	13	25	20	3	46	

Scores as submitted to the computer

Graph 2

Example of Student's Answer Sheet Including the Altered
Scores as Submitted to the M.S.U. 3600 Computer

T Score	TRQ	NURT	WITH	NEU	AFF	SUCC	TOTAL	T Score	
80	57	17	20	30	33	21	79	80	Value of 3
75	52	16	19	28	32	19	71	75	
70	48	15	18	27	29	17	69	70	
65	43	13	17	(25)	28	15	65	65	
60	34	12	15	23	27	13	57	60	Value of 2
55	29	(11)	(13)	20	25	10	51	55	
50	23	10	11	18	23	8	(46)	50	
45	(17)	8	10	15	(20)	7	41	45	
40	9	7	9	13	18	5	37	40	Value of 1
35	5	6	7	12	16	(3)	29	35	
30	3	5	6	10	14	2	24	30	
25	2	4	5	8	12	1	20	25	
20	1	2	4	6	10	0	15	20	
	2	2	2	3	2	1	2		

Scores as submitted to computer

CHAPTER 5

THE RESULTS OF THE STUDY

Results of the Descriptive Analyses of the Data

A rank ordering of the Total Score of each student in the sample as measured by the GPPT appears in Table 5.

Table 5

A Rank Ordering of the Total Scores

Range of Total Scores	Number of Students
22-26	1
27-31	4
32-36	5
*37-41	5
42-46	18
47-52	15
53-57**	9
58-62	5
63-67	6
68-72	3
73-77	2

*Total Score below 37 indicates general emotional immaturity.

**Total Score above 57 suggests poor mental health.

Of the 73 female, Caucasian, upper division, Home Economics students, 16 students or 21.8 percent of the sample had Total Scores of 57 or above. As described by Cassel and

Kahn, the Total Score represents a combination of all seven scores on the GPPT "in such a manner and with such weights as to discriminate between mentally ill and normal individuals."¹ A Total Score above 57 indicates poor mental health. Between the Total Scores of 37 and 57, a range "suggesting a normal personality pattern with good mental health,"² 47 students or 64.3 percent of the sample were distributed. Scoring below Total Score 37 were 10 students or 13.7 percent of the sample. A Total Score below 37 indicates general emotional immaturity.

The second form of descriptive analysis applied to the data was to plot the scores of each student on selected variables to ascertain the pictorial relationship of the factors to one another.

In the first instance, as recorded in Graph 3, Total Score was plotted on the x axis and grade point average was plotted on the y axis. A clustering of scores occurred in the range of 37 to 57 Total Score which were also between the grade point averages of 2.0 and 2.5. The scatter diagram, however, revealed no distinctive patterning.

From the scatter diagram it appeared that no significant relationship existed between Total Score and grade point average.

¹Cassel and Kahn, op. cit., p. 40.

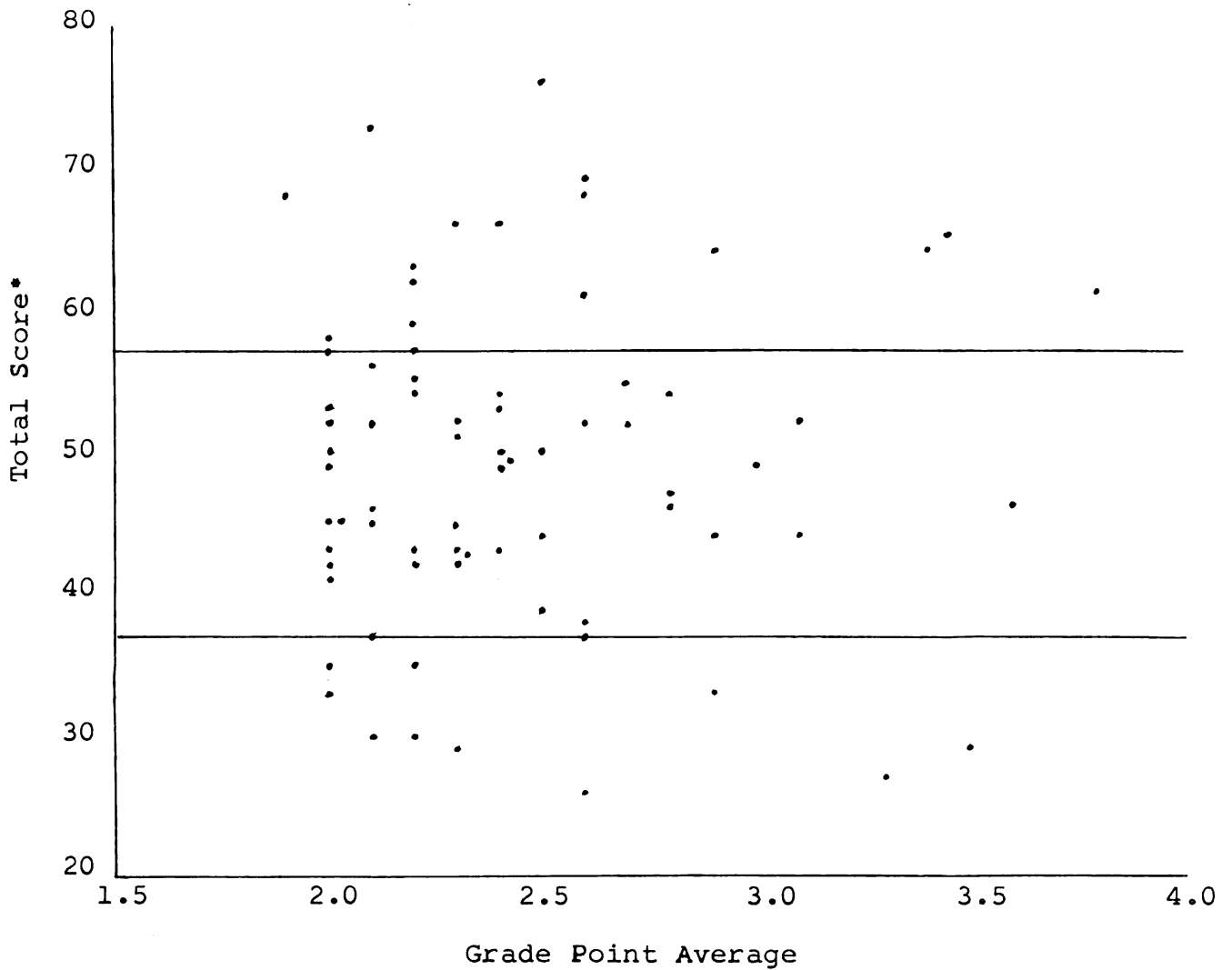
²Ibid., p. 40.

Nurturance, the need to play the father role, was also plotted against grade point average. Of particular interest was the possibility of an apparent relationship of the need for a female adult to play the father role and the activeness of this need as related to the student's achievement (Graph 4). A clustering of the scores in the normal range (between the standardized T scores of 40 and 60), which also lay between the grade point averages of 2.0 to 2.5, was apparent. Again, no distinctive patterning that would appear to demonstrate a significant relationship of Nurturance to grade point average was evidenced in the scatter diagram.

The need state, Affiliation-Psychosexual, as measured by the GPPT, which involved the students' projection of their needs as they relate to members of the opposite sex, was the focus of the third scatter diagram. The question in point was: What if any significant relationship exists between the needs of adult females to be with males and their level of academic achievement (Graph 5). As plotted, the Affiliation-Psychosexual scores are between the scores of 15 and 20. The range delineated by Cassel and Kahn to indicate normal adjustment for the Affiliation-Psychosexual Score was from 18 to 27. "Where the score is low (Affiliation-Psychosexual Score below)," wrote Cassel and Kahn, a general self-sufficiency or general psychosexual immaturity

Graph 3

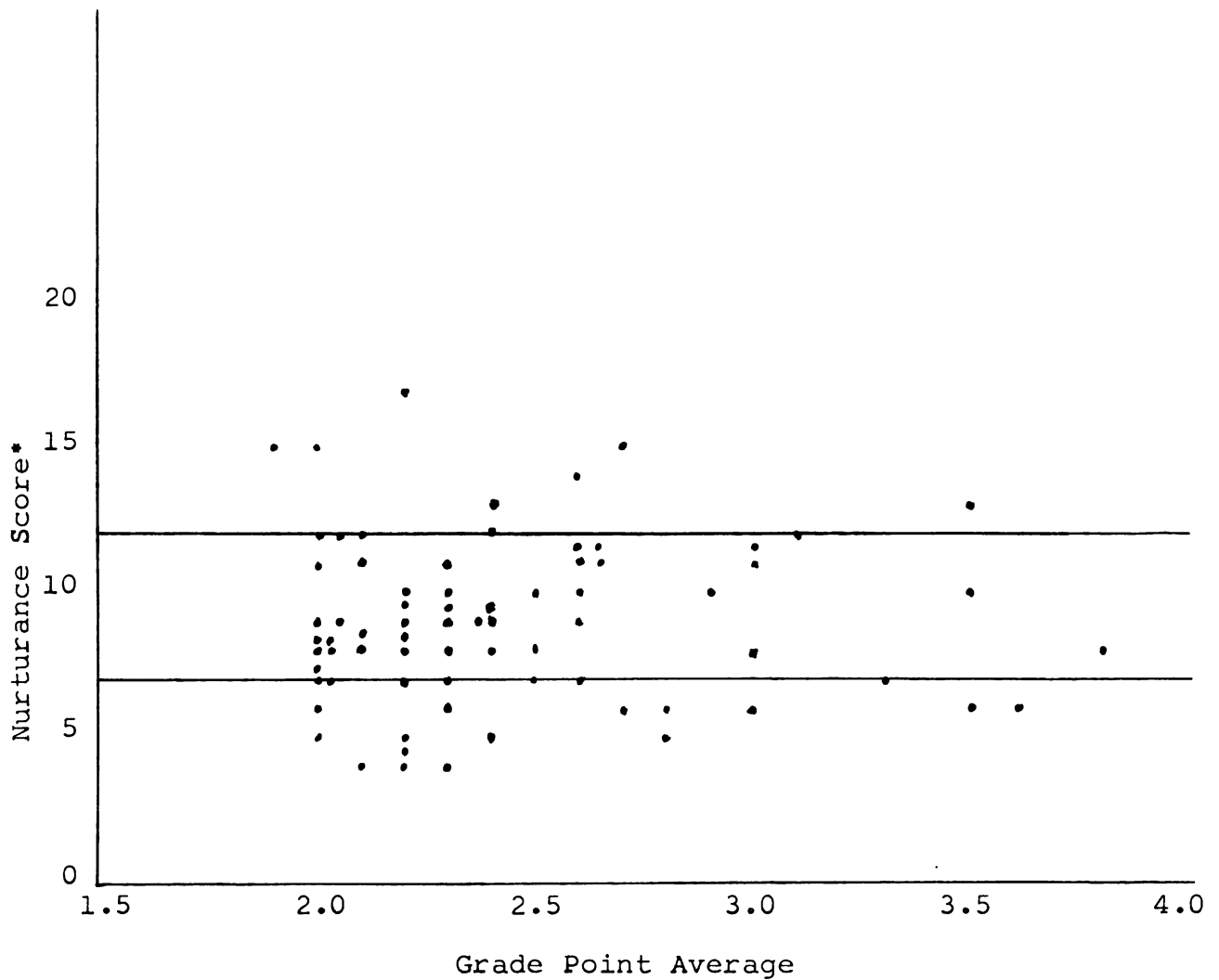
The Relationship of Total Score to Grade Point Average



*Total Score below 37 indicates general emotional immaturity; Total Score above 57 suggests poor mental health; Total Score between 37 and 57 suggests normal personality adjustment.

Graph 4

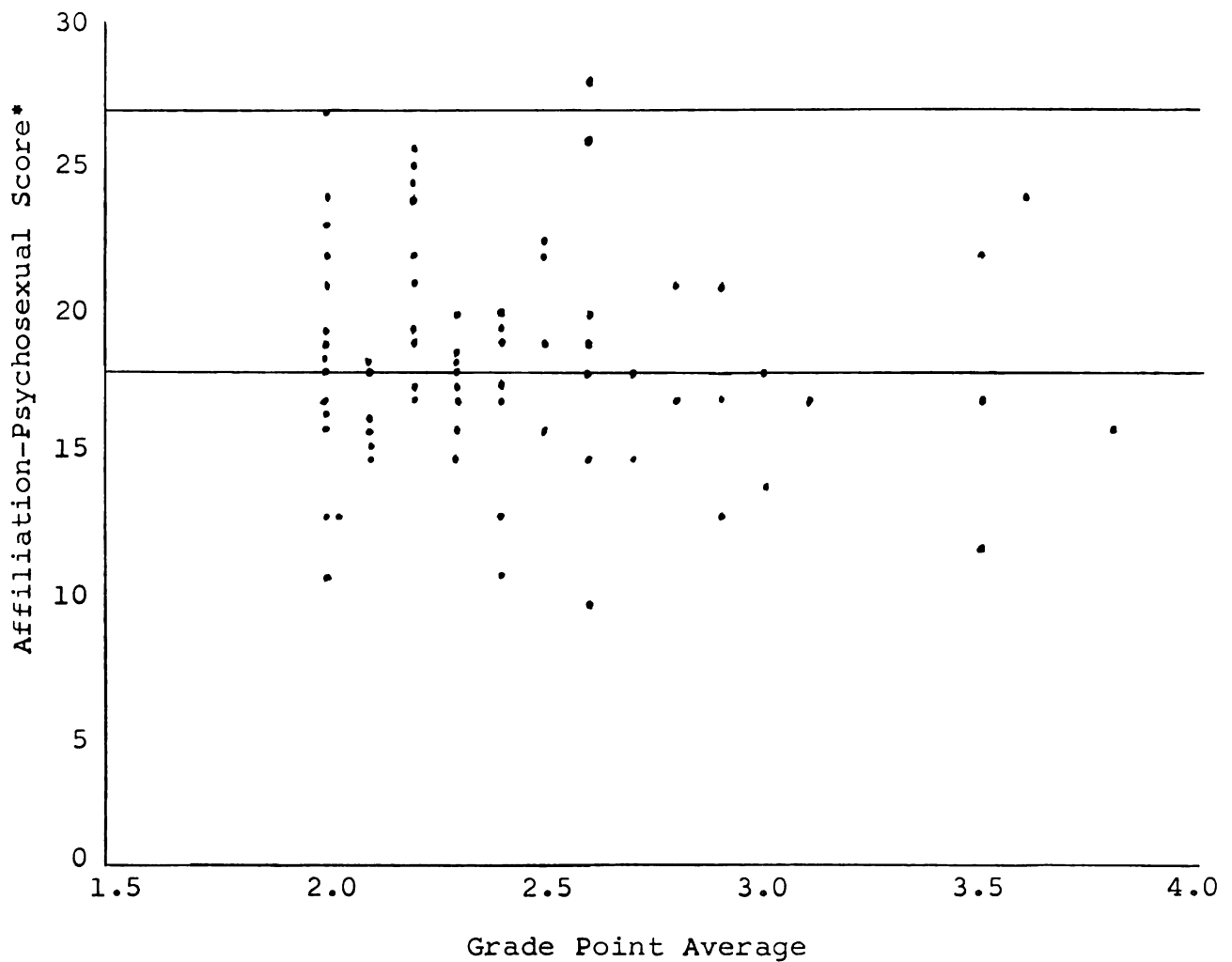
The Relationship of Nurturance Scores
to Grade Point Average



*The range delineated by Cassel and Kahn to indicate normal adjustment for the Nurturance Score was from 7 to 12.

Graph 5

The Relationship of Affiliation-Psychosexual Scores
to Grade Point Average



*The range delineated by Cassel and Kahn to indicate normal adjustment for the Affiliation-Psychosexual Score was from 18 to 27.

of the individual is indicated."³ "Data from the individual case histories must be utilized in determining which of these two conditions is present."⁴ An analysis of the case histories of each student was not undertaken so that the clustering which occurred around the numerical index of average, i.e., normal scores, and low scores cannot be identified as representing a determined percentage of the self-sufficiency syndrome or the psychosexual immaturity one. As viewed from the y axis, the clustering once again falls between the 2.0 and 2.5 grade point average level. From a visual analysis of the position of the scores, no distinctive patterning that would seem to indicate a significant relationship of grade point average to Affiliation-Psychosexual Needs was evidenced.

The fourth analysis Affiliation-Psychosexual scores were plotted against Nurturance scores. These two scores were pictorially analyzed in an effort to ascertain the relationship of the need of adult females to play the father role and their need to relate to members of the opposite sex. The scores were randomly spread around a centralized cluster between Nurturance score 7 and 12 and Affiliation-Psychosexual score of 15-20. It appeared as though Nurturance scores had a slight tendency to relate negatively to

³Ibid., p. 40.

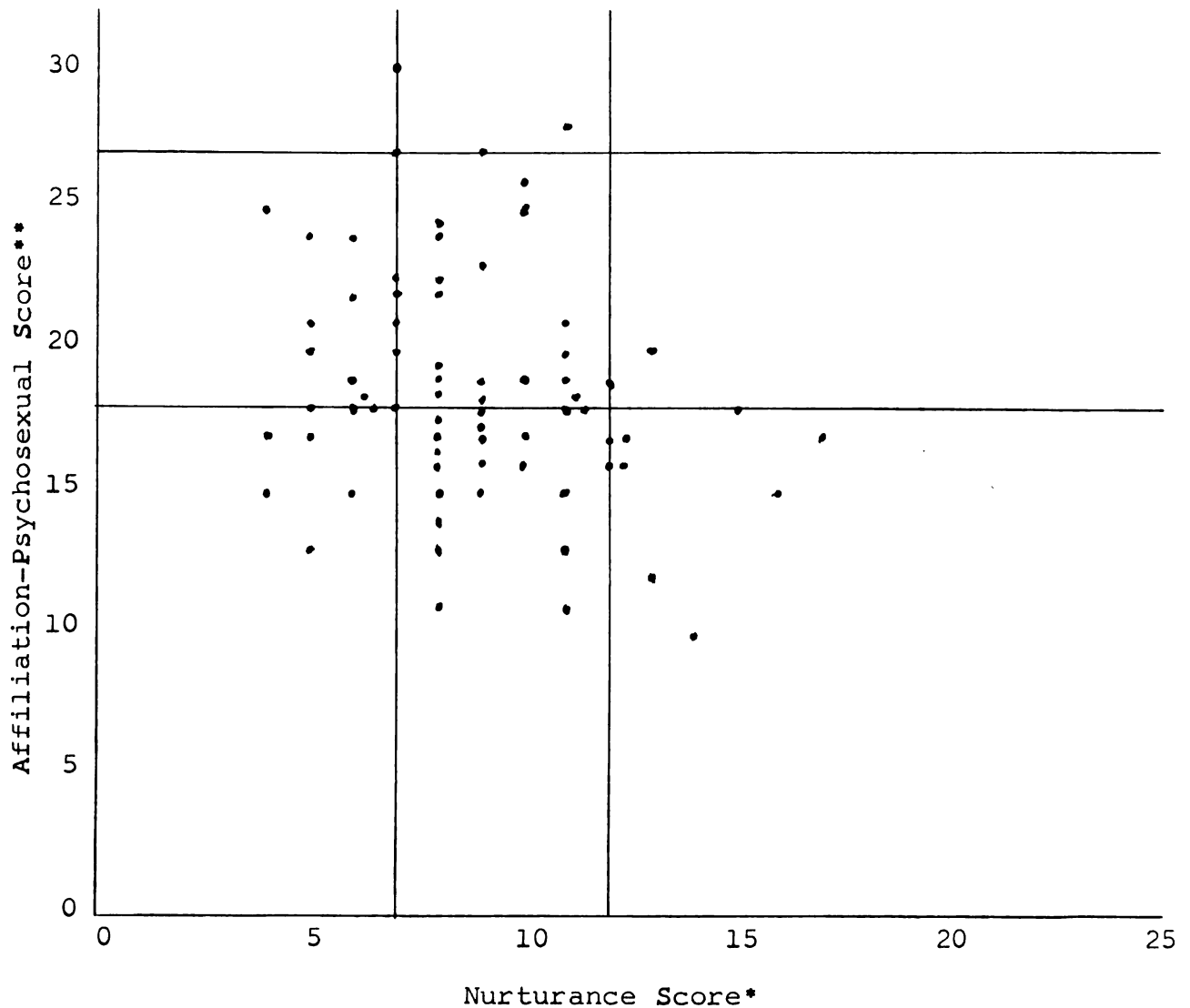
⁴Ibid., p. 40.

Affiliation-Psychosexual scores. In terms of the needs measured, a student in this sample who had a normal or high need-state-activeness to play the father role tended also to have a normal or low need-state-activeness to relate to members of the opposite sex (Graph 6).

A tabular analysis of the data as recorded in Graph 7 (Appendix) was the final descriptive analysis employed. Upon inspection, no distinctive patterning of need state activeness appeared to be related to the student's level of achievement. Of the 19 students who had low grade point averages as defined in this study (1.95 to 2.17), the mean number of scores received which was representative of a high need activeness was .63 per student. The mean number of low need state scores received among the 19 students with low grade point averages was .89 per student. Considering the 19 high achieving students in the sample, those with grade point averages between 2.67 and 3.81, the mean number of high need state scores was 1.2 per student. Likewise, the mean number of low need state scores received was 1.2 per student among the high achieving. These calculations show that, for this sample, the high achieving student tends to have a greater number of high need state activeness scores, and also a greater number of low need state scores than the low achieving student. In other words, the high achiever tends to have more scores that fall beyond the indices of normalcy as described by Cassel and Kahn

Graph 6

The Relationship of Affiliation-Psychosexual Scores
to Nurturance Scores



*The range delineated by Cassel and Kahn to indicate normal adjustment for the Nurturance Score was from 7 to 12.

**The range delineated by Cassel and Kahn to indicate normal adjustment for the Affiliation-Psychosexual Score was from 18 to 27.

than does the low achiever.

The mean grade point averages were determined for the students whose Total Scores were above 57, for those between 37 and 57 inclusive and for those below 37. Table 6 reports the results.

Table 6

A Distribution of the Total Scores Received by Each Student and His Corresponding Grade Point Average

Total Scores above 57 and GPA		Total Scores between 37 and 57 and GPA				Total Scores below 37 and GPA			
Scores	GPA	Scores	GPA	Scores	GPA	Scores	GPA	Scores	GPA
76	2.54	57	2.28	50	2.59	44	3.19	35	2.20
73	2.18	57	2.03	50	2.00	44	2.36	35	2.02
68	2.65	56	2.16	49	2.49	44	2.59	33	2.08
68	1.95	55	2.74	49	2.43	44	2.93	33	2.99
68	2.69	55	2.21	49	2.04	43	2.39	32	2.01
66	2.47	54	2.47	49	2.44	43	2.22	30	2.22
66	2.37	54	2.28	49	3.03	43	2.42	29	2.34
65	3.52	53	2.09	47	2.85	42	2.00	29	3.51
64	2.21	53	2.48	46	2.11	42	2.03	27	3.33
64	2.99	52	2.74	46	2.81	42	2.37	26	2.62
64	3.59	52	2.36	46	3.61	42	2.20		
62	2.22	52	2.36	45	2.04	41	2.03		
61	3.81	52	2.67	45	2.02	39	2.54		
61	2.67	52	2.04	45	2.17	38	2.62		
59	2.28	52	3.19	45	2.31	37	2.18		
58	2.05	51	2.13			37	2.63		

The mean grade point average for the students who scored above 57 on Total Score was 2.63. For those scoring

between 37 and 57 inclusive on Total Score, the mean grade point average was 2.42; and for those scoring below 37 on Total Score the mean grade point average was 2.53. The difference between the middle range scores and the higher range scores was .21; the difference between the middle range scores and the lower range ones was .17. The mean of the grade point averages for this sample in the normal range, as described by Cassel and Kahn, was lower than the means of either the high or the low scorers. The figures are not directly comparable, however, as the high range represents 16 students, the normal range 45 students, and the low range 12 students. A weighting of the scores to account for the difference in the number of the students in each of the ranges (high, normal, and low) was not undertaken as the results of the statistical analyses of the data which follow, correlate the relationship of grade point average to Total Scores.

Results of the Statistical Analyses of the Data

The statistical analyses of the data as presented by the Michigan State University 3600 Computer appear in Tables 7 through 12.

Tables 7 and 8 report the computerized results of a problem of least squares in which the data on each student in the sample were submitted as follows:

1. The seven unaltered scores of each student as measured by the GPPT (Tension Reduction Quotient, Nurturance,

Withdrawal, Neuroticism, Affiliation-Psychosexual, Succorance, and Total Score).

2. The grade point average of each student.

Table 7

Simple Correlations of Unaltered Data

GPA	1	1.000						
TRQ	2	0.031	1.000					
NURT	3	-0.022	0.275	1.000				
WITH	4	-0.051	-0.039	0.168	1.000			
NEU	5	0.073	0.200	0.002	0.006	1.000		
AFF	6	-0.048	-0.353	-0.249	-0.388	-0.362	1.000	
SUCC	7	0.122	0.322	-0.055	-0.359	-0.180	-0.186	1.000
TOTAL	8	0.052	0.963	0.327	0.122	0.272	-0.478	0.384
		1	2	3	4	5	6	7
		GPA	TRQ	NURT	WITH	NEU	AFF	SUCC

Key:

GPA = Grade point average
 TRQ = Tension Reduction Quotient
 NURT = Nurturance
 WITH = Withdrawal
 NEU = Neuroticism
 AFF = Affiliation-Psychosexual Needs
 SUCC = Succorance
 TOTAL = Total Score

Of the 28 simple correlations that were reported in Table 7, 12 factors correlated at the .05 level of significance for a sample of 73 persons; and 9 of the factors correlated at the .01 level of significance.⁵ As can be

⁵Helen M. Walker and Joseph Lev, Statistical Inference (New York: Henry Holt & Co., 1953), p. 470.

seen from the Table of Simple Correlations, the closest relationship that appeared between any two of the factors was that of the .963 correlation of the Tension Reduction Quotient to Total Score.

The factors significant at the .05 level and their coefficients of correlation are reported below. Those factors also significantly correlated at the .01 level are indicated by an asterisk.

1. Nurturance to Tension Reduction Quotient	.275
2. Affiliation-Psychosexual to Tension Reduction Quotient	-.353*
3. Succorance to Tension Reduction Quotient	.322*
4. Total Score to Tension Reduction Quotient	.963*
5. Affiliation-Psychosexual to Nurturance	-.388*
6. Total Score to Nurturance	.327*
7. Affiliation-Psychosexual to Withdrawal	.388*
8. Succorance to Withdrawal	-.359*
9. Affiliation-Psychosexual to Neuroticism	-.362*
10. Total Score to Neuroticism	.272
11. Total Score to Affiliation-Psychosexual	-.478*
12. Total Score to Succorance	.384*

For this sample 42.8 percent of the GPPT factors correlated to one another and to grade point average were significant at the .05 level; 32.1 percent were significant at the .01 level. No significant relationship appeared between grade point average and any of the need states as measured by the GPPT.

Comparing the correlation of the data results of this study to that reported by Cassel and Kahn⁶ in support of the validity and reliability of the GPPT, 66.6 percent of the Cassel and Kahn correlations were significant at the .05 level; and 60 percent were significant at the .01 level.

The factors significant at the .05 level in the Cassel and Kahn study and their coefficients of correlation are reported below. Those factors also significantly correlated at the .01 level are indicated by an asterisk.

1. Nurturance to Tension Reduction Quotient	.188*
2. Neuroticism to Tension Reduction Quotient	.122
3. Affiliation-Psychosexual to Tension Reduction Quotient	-.181*
4. Affiliation-Psychosexual to Nurturance	-.354*
5. Succorance to Nurturance	-.389*
6. Neuroticism to Withdrawal	-.293*
7. Affiliation-Psychosexual to Withdrawal	-.398*
8. Succorance to Withdrawal	-.223*
9. Succorance to Neuroticism	-.314*
10. Succorance to Affiliation-Psychosexual	.268*

Five of the significant correlations in the current study are also significant in the Cassel and Kahn study. These are reported below. The asterisks indicate significance at the .01 level.

⁶Cassel and Kahn, op. cit., p. 10.

	Correlation of the Coefficients in Current Study	Correlation of the Coefficients in C & K Study
1. Nurturance to TRQ	.275	.188*
2. Affiliation-Psy. to Tension Reduction Quot.	.353*	.181*
3. Affiliation-Psy. to Nurturance	.388*	.354*
4. Affiliation-Psy. to Withdrawal	.388*	.398*
5. Succorance to With- drawal	.359*	.223*

Table 8 reports the regression coefficients, the standard error of the coefficients, the Beta Weights, and the Standard Error of the Beta Weights as computed from the unaltered GPPT scores and grade point average.

Table 8

Regression Coefficients and Beta Weights of Unaltered Data

	Regression Coefficients	Standard Errors of Coefficients	Beta Weights	Standard Errors of Betas
TRQ	-0.010	0.048	-0.297	1.369
NURT	-0.004	0.028	-0.024	0.176
WITH	-0.009	0.058	-0.061	0.411
NEU	0.007	0.031	0.068	0.285
AFF	0.000	0.020	0.004	0.182
SUCC	0.012	0.053	0.091	0.401
TOTAL	0.001	0.006	0.301	1.583

The values of the regression coefficients, as reported

in Table 8 represent "the determination of the best method of combining . . . measures in order to predict a criterion. The coefficients are the best combination of the factors for the purpose of prediction of any peculiarities which make one set of (beta) weights more effective than another."⁷ The beta weights, the result of the determination of the least squares, also appear in Table 8. The degree to which the standard errors of the regression coefficients and the beta weights affect the regression coefficients and the beta weights is reported in Table 9. As determined at the outset of the study, standard errors which were equal to or less than .35 of the value of each of the beta weights or regression values would be accepted as evidence of the predictive value of the GPPT. A standard error of less than .35 of the beta weights and of regression values would support the validity and reliability of the GPPT. Although the values as determined by the regression analysis represent the best combination of the factors, the degree to which the standard error is reflected in the regression values indicated that the score received on any single need state as measured by the GPPT has little or no predictive value in terms of the score received on any other single need state or to grade point average. The relatively high value of the standard error of the betas which accompany the beta weights gives evidence that in testing another

⁷Travers, op. cit., p. 378.

sample with the GPPT the beta weights would be altered significantly. In other words, as calculated from this sample, the magnitude of the standard error of the betas indicated that an accurate prediction of the activeness of any need state or grade point average from any other single factor cannot be applied to another sample.

Table 9

The Degree to which the Standard Error is Reflected in the Regression Values and Beta Weights of Each of the Scores (in the analysis of the unaltered data) as Measured by the Group Personality Projective Test

	Degree to which the standard error is reflected in regression values	Degree to which the standard error is reflected in beta weights
1. Tension Reduction Quotient	4.611	4.611
2. Nurturance	7.461	7.461
3. Withdrawal	6.707	6.707
4. Neuroticism	4.168	4.168
5. Affiliation- Psychosexual	50.888	50.816
6. Succorance	4.400	4.400
7. Total	5.252	5.253

Tables 10 and 11 report the computerized results of a problem of least squares in which the data were submitted as follows:

1. The seven altered scores as described in the Analysis of the Data on page 29 and in Graph 2, that each

student received on the GPPT (Tension Reduction Quotient, Nurturance, Withdrawal, Neuroticism, Affiliation-Psychosexual, Succorance and Total Score).

2. The grade point averages of each of the students in the sample.

Table 10

Simple Correlations of Altered Data

GPA	1	1.000						
TRQ	2	0.019	1.000					
NURT	3	-0.100	0.294	1.000				
WITH	4	-0.155	-0.052	0.153	1.000			
NEU	5	0.093	0.156	-0.048	-0.008	1.000		
AFF	6	-0.045	-0.372	-0.168	-0.124	-0.376	1.000	
SUCC	7	0.151	0.249	-0.098	-0.384	-0.090	-0.121	1.000
TOTAL	8	0.128	0.860	0.254	0.085	0.131	-0.353	0.195
		1	2	3	4	5	6	7
		GPA	TRQ	NURT	WITH	NEU	AFF	SUCC

The purpose of this manipulation of the data was to analyze the trend of the relationships between any two factors. The weighting of the scores was, in effect, a summarization of the scores of the students in the sample into three categories: high, normal and low scores. The Table of the Simple Correlations, therefore, presented a generalized view of the relationships of the variables of

the GPPT to one another and to grade point average. Of the 28 simple correlations that were reported in Table 7, eight factors correlated at the .05 level of significance, and five of the factors correlated at the .01 level of significance. The closest relationship that appeared between any two factors was that of the .860 correlation of the Tension Reduction Quotient to Total Score. The factors significant at the .05 level and their coefficients of correlation are reported below. Those factors also significantly correlated at the .01 level are indicated by an asterisk.

1. Nurturance to TRQ	.294
2. Affiliation-Psy. to TRQ	-.372*
3. Succorance to TRQ	.249
4. Total Score to TRQ	.860*
5. Total Score to Nurturance	.254
6. Succorance to Withdrawal	-.384*
7. Affiliation-Psy. to Neuroticism	-.376*
8. Total Score to Affiliation-Psy.	-.353*

Comparing the results of the correlations of the manipulated data to those of the unaltered data, the eight significant correlations of the manipulated data are also significant in the unaltered data. Four of the significant correlations of the unaltered data, however, do not appear significant in the correlations of the manipulated data. These are:

1. Affiliation-Psychosexual Needs to Nurturance
2. Affiliation-Psychosexual Needs to Withdrawal
3. Total to Neuroticism
4. Total to Succorance

Table 11 reports the regression coefficients, the standard error of the coefficients, the Beta Weights, and the Standard Error of the Beta Weights of the altered data. As a result of the manipulation of the data, the regression coefficients and the beta weights tended to be larger than those in the unaltered analysis. Of importance again, however, are the relatively high standard errors of the regression coefficients and of the beta weights.

Table 11

Regression Coefficients and Beta Weights of Altered Data

	Regression Coefficients	Standard Errors of Coefficients	Beta Weights	Standard Errors of Betas
TRQ	-0.372	0.194	-0.469	0.245
NURT	-0.048	0.107	-0.057	0.127
WITH	-0.148	0.111	-0.179	0.135
NEU	0.100	0.138	0.094	0.130
AFF	-0.016	0.114	-0.019	0.139
SUCC	0.092	0.128	0.097	0.136
TOTAL	0.398	0.180	0.523	0.237

The degree to which the standard errors are reflected in the regression values and Beta weights is reported in Table 12.

Table 12

The Degree to which the Standard Error is Reflected in the Regression Values and Beta Weights of Each of the Scores (in the analysis of the altered data) as Measured by the Group Personality Projective Test

	Degree to which the standard error is reflected in regression values	Degree to which the standard error is reflected in beta weights
1. Tension Reduction Quotient	.522	.522
2. Nurturance	2.236	2.236
3. Withdrawal	.751	.751
4. Neuroticism	1.380	1.380
5. Affiliation- Psychosexual	7.171	7.171
6. Succorance	1.395	1.395
7. Total	.453	.453

As in the analysis of the unaltered data, the magnitude of the standard errors was such that an accurate prediction of any need state activeness of GPPT from any other factor, when weighted, cannot be applied to another sample.

CHAPTER 6

SUMMARY, CONCLUSIONS AND IMPLICATIONS

The purpose of this study was to investigate the adult female in terms of the activeness of certain personality needs as measured by the GPPT and how these needs relate to the student's level of achievement. The total sample included 73 Caucasian, female, upper division, Michigan State University, Home Economics students. The GPPT, developed by Cassel and Kahn in 1958, was used to assess the need-state activeness present at the time of testing; and the Michigan State grade point average for each student in the sample was used as a measure of the student's achievement.

Each of the hypotheses of this study is listed below. Each hypothesis is followed by a statement which indicates whether or not the statistical analyses indicate support.

1. The mean grade point average for students scoring above 57 or below 37 on the Total Score as measured by the GPPT is the same as the mean grade point average for students scoring between 37 and 57.

The mean grade point average for the students who scored above 57 of total score was 2.68, for those scoring between 37 and 57, the mean was 2.42, and for those scoring

below 37 the mean was 2.53. In that there is relatively little difference between the means of the grade point averages of students who scored high, normal, and low on Total Score as measured by the GPPT, Hypothesis 1 appears to be supported.

2. For upper division, female, Caucasian, Michigan State University Home Economics students:

A. No significant relationship exists between the Tension Reduction Quotient and Nurturance, the Tension Reduction Quotient and Withdrawal, the Tension Reduction Quotient and Neuroticism, the Tension Reduction Quotient and Affiliation-Psychosexual Needs, the Tension Reduction Quotient and Succorance, and the Tension Reduction Quotient and Total Score, as measured by the GPPT.

Although no significant relationship existed between the Tension Reduction Quotient and Withdrawal, or Neuroticism, a significant relationship was indicated between the Tension Reduction Quotient and Nurturance (.275), between Tension Reduction Quotient and Succorance (.322), and between Tension Reduction Quotient and Total Score (.963). A significant negative relationship existed between Tension Reduction Quotient and Affiliation-Psychosexual Needs (-.353). Hypothesis 2A is partially rejected in light of these significant correlations.

- B. No significant relationship exists between Nurturance and Withdrawal, Nurturance and Neuroticism, Nurturance and Affiliation-Psychosexual Needs, Nurturance and Succorance, and Nurturance and Total Score.

Although no significant relationship exists between Nurturance and Withdrawal, Neuroticism, or Succorance, a significant relationship was determined between Nurturance and Total Score (.327). A significant negative relationship existed between the Nurturance Score and Affiliation-Psychosexual Needs (-.388). Hypothesis 2B is partially rejected in light of these significant correlations.

- C. No significant relationship exists between Withdrawal and Neuroticism, Withdrawal and Affiliation-Psychosexual Needs, Withdrawal and Succorance and Withdrawal and Total Score, as measured by the GPPT.

No significant relationship existed between Withdrawal and Neuroticism, or Total Score. A significant negative relationship did exist, however, between Withdrawal and Affiliation-Psychosexual Needs (-.388), and between Withdrawal and Succorance (-.359). Hypothesis 2C is partially rejected in light of these significant correlations.

- D. No significant relationship exists between Neuroticism and Affiliation-Psychosexual Needs, Neuroticism

and Succorance, and Neuroticism and Total Score, as measured by the GPPT.

Of the three correlations applicable to this hypothesis, the relationship of Neuroticism to Affiliation-Psychosexual Needs ($-.362$) was the only one of significance. Hypothesis 2D is partially rejected in light of this significant correlation.

E. No significant relationship exists between Affiliation-Psychosexual Needs and Succorance or Affiliation-Psychosexual Needs and Total Score.

In that the correlation of Affiliation-Psychosexual Needs to Total Score produced a significant negative relationship ($-.478$), Hypothesis 2E has been partially rejected. No significant relationship, however, was evidenced between Affiliation-Psychosexual Needs and Succorance.

F. No significant relationship exists between Succorance and Total Score, as measured by the GPPT.

A significant relationship ($.384$) was evidenced between Succorance and Total Score. Hypothesis 2F was rejected in light of this significant correlation.

G. No significant relationship exists between grade point average as assessed by Michigan State University and the Tension Reduction Quotient, grade point average and Nurturance, grade point average and

Withdrawal, grade point average and Neuroticism, grade point average and Affiliation-Psychosexual Needs, grade point average and Succorance and grade point average and Total Score, as measured by the GPPT.

There were no significant correlations between grade point average and any of the seven scores measured by the GPPT. Hypothesis 2G is supported.

Based on the analysis of the need state activeness as measured by the GPPT for the sample of 73 Caucasian, female, upper division, Michigan State University, Home Economics students, it appears that the study supports the notion that the activeness of personality needs has little, if any, effect on academic achievement in a university setting. This conclusion, however, has been drawn from statistical analyses in which the standard errors of the regression coefficients and beta weights have been relatively high. To state the conclusion in terms of a practical application, the magnitude of the standard errors is large enough that by using the results of this study as the norm, no accurate prediction of the activeness of any of the need states as measured by the GPPT, or of grade point average, could be attempted for another sample.

Several questions are raised by these data.

1. Was the variability of the factors inherent in the sample greater than those for which the GPPT was constructed?

2. The authors of the GPPT have stated that the test has been empirically validated. What factor or combination of factors in this study have been responsible for the magnitude of the standard error of the regression coefficients and of the beta weights?

3. Does the test, in fact, discriminate optimally between normal and non-normal personality constructs in terms of need state activeness?

The implications for further study, therefore, would include research designed to investigate these questions.

In conclusion, it can be stated that the purposes of this study as identified at the outset were not wholly fulfilled. Rather than identifying significant relationships between certain need states, and between these need states and grade point average in an effort to develop a criterion for the prediction of need-state activeness from grade point average or grade point average from need-state activeness, the research serves as a validation study of the GPPT.

Although not identifiable in the planning stages of this study, the GPPT was unsatisfactory for the purposes for which it was intended. As a learning experience for the author, however, the problems that surrounded the instrument pointed out very specifically the advantages for pretesting an instrument. If this study were to be repeated, the author suggests that a pretesting of the instrument precede final selection of an instrument.

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APPENDIX

Graph 7

Graph 7 (continued)

	TRQ	NURT	WITH	NEU	AFF	SUCC	TOTAL
23			17				
						4	
24	43						64
25				26			
					17		
26	36	17	16				62
					17		
27							
	5	4					30
28							
29						20	
		5	7				
30	36					16	
		5	6				
31	40						51
32							
					17		
33							
	3				16		29
34							
		6					
35							
36							
37				24			
					15		
38	48			26			66
		4	6		17		
39			16				
						3	
40		13					
			8	12			
41						14	
42			17	24			
		5			13		
43							
					17		
44	40			27			65
					11		
45	36					14	
			8				
46							

Graph 7 (continued)

	TRQ		NURT		WITH		NEU		AFF		SUCC		TOTAL
47	61										16		76
48													
49					8								
50							30		16				
51					7								
52							12						
53	0				5				28				25
54	43										13		67
55					17	2.67							61 2.67
56			14	2.67	18	2.67			2.67				2.67
57	41	2.69							10				
58									15				
59			2.74						2.74		17	2.74	2.74
60			6						15				
61													2.74
62													2.81
63			2.81										2.81
64			5										
65			2.85										2.85
66			6										
67									2.93				2.93
68									17				
69	40	2.99							2.99				64 2.99
70		2.99							13				
71	8												2.99
72													33
73									3.03		14	3.03	3.03
74									14				
75							26	3.19	3.19		3.19		3.19
76									17		4		
77			3.19										3.19
78			6										
79		3.33							30	3.33			3.33
80	0												27
81		3.51			3.51								3.51
82	0				6								29
83	45	3.52							3.52				65 3.52
84									17				

Graph 7 (continued)

	TRQ		NURT		WITH		NEU		AFF		SUCC		TOTAL	
71	38	3.59	13	3.59			24	3.59		3.59			64	3.59
									12					
72				3.61		3.61								3.61
			6		6									
73	35	3.81					25	3.81		3.81			60	3.81
									16					

THE GROUP PERSONALITY PROJECTIVE TEST

by

RUSSELL N. CASSEL, Ed.D.

THEODORE C. KAHN, Ph.D.

(Illustrations by Fredrick L. Finch, B.A.)

INSTRUCTIONS

This is a test of your personality. It is concerned with assessing personal, social, and emotional need projections. In order to get an accurate measurement of your personality, you must answer each one of the questions as conscientiously as you can. Many times none of the answers provided in the booklet will quite describe what you believe is taking place, but you are to select the answer that comes closest to your idea, or is most acceptable to you. It is always necessary that you select one of the answers, and only one, for each of the questions, in order that we may compare your answers with those of other individuals who have taken the test.

There are no time limits or other special instructions. When you have decided on your answer, take the answer sheet provided you and find the number of the question you are answering on the extreme left side of the column. Then blacken in the appropriate space under the letter a, b, c, d, or e to indicate your choice for the corresponding answer as shown in the example.

Example: a b c d e
34. | | ☒ | | |

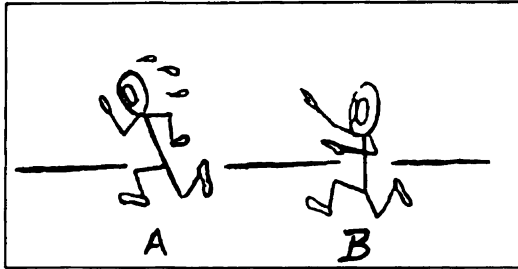
Do not discuss your answers with others while you are taking the test, because it is important that you not be influenced in making your selection of answers.

You should be able to finish the test in one class period, or about 40 minutes.

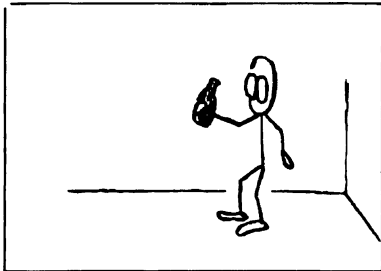
DO NOT MARK ON THE TEST BOOKLET

PSYCHOLOGICAL TEST SPECIALISTS

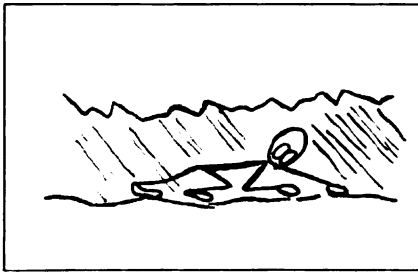
Copyright 1958 by Psychological Test Specialists



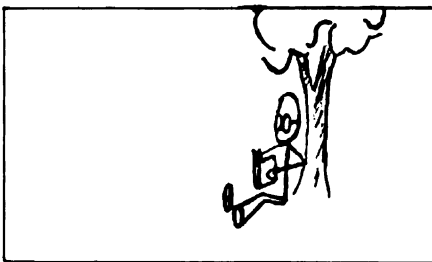
1. What will happen if B catches A?
- They are only playing a game of tag.
 - A will be spanked.
 - B will make up and become A's good friend.
 - A will play ball on B's team.
 - B will teach A not to lie or tell untruths.



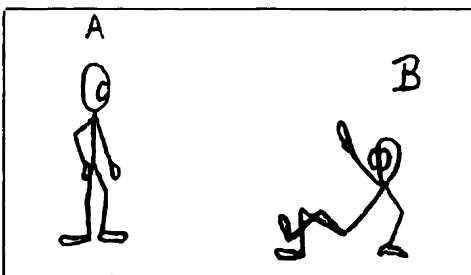
2. If something is in the bottle, what is it?
- A great and newly invented medicine.
 - Vitamins for sick people.
 - No one knows what it is.
 - Mixed drinks of an alcoholic type to make cocktails for a party.
 - Milk for a baby.



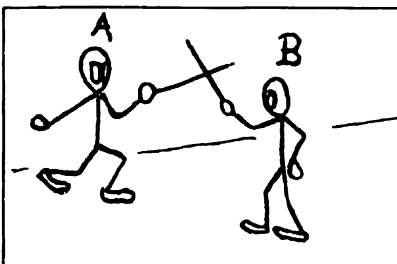
3. What is the person in the picture doing?
- On a vacation in the mountains.
 - Hiding from the police.
 - Trying to discover gold.
 - Spying on the enemy.
 - Crying because he was punished.



4. What is the person in the picture reading for?
- Trying to make counterfeit or fake money.
 - Trying to forget some troubles.
 - Trying to solve a hard problem.
 - Reading a love story.
 - Studying his school lesson.



5. What is taking place in the picture?
- A and B are working together.
 - A is showing B how to dance.
 - A and B were fighting and B is trying to make up.
 - Two members of a dance team.
 - A caught B stealing from him.



6. What are A and B doing in the picture?
- Two boys playing with broom sticks.
 - B is the teacher of A, and both are soldiers.
 - A and B are practicing to play in a sport.
 - A is trying to kill B.
 - B distrusts A very much.

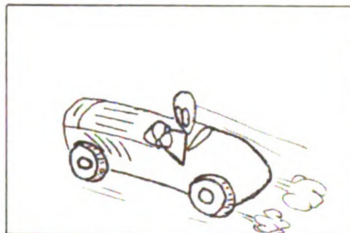
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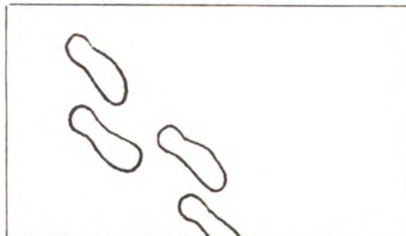
7. This child is crying because?
- It is very happy.
 - It has run away from home.
 - It is lost and cannot find its way home.
 - It has been in a fight with some older children.
 - It is homesick and wants to go home.



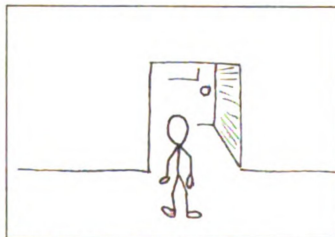
8. What is taking place in this picture?
- A is a chicken raiser or farmer.
 - The chicken is a pet of A.
 - A is trying to make a pet out of the chicken.
 - A wants to kill the chicken and eat it.
 - The chicken does not know whether to trust A.



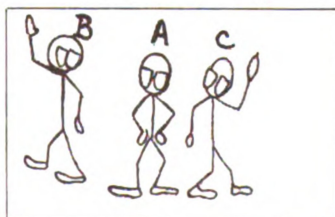
9. What is the man in the automobile doing?
- He is trying to win a race.
 - Going for a ride on Sunday afternoon.
 - Going home to make up with his wife after having a big argument with her.
 - Going on a date with his girl friend.
 - Going to visit mother.



10. Whose footprints are in the picture?
- A lonesome person going for a walk.
 - A child running away from home.
 - A person trying to solve a very important problem.
 - A good friend who belongs to the same club.
 - A thief trying to rob someone.

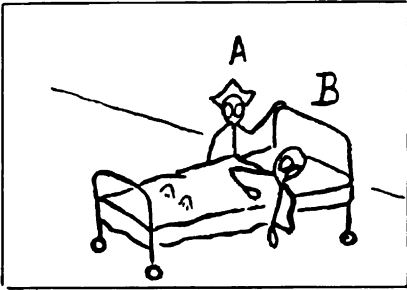


11. Where is the person in the picture going?
- On a vacation for a good time.
 - Just taking a walk.
 - He is worried because his wife is having a baby in the hospital.
 - He is going home to his family after work.
 - He is going to church to listen to the preacher.

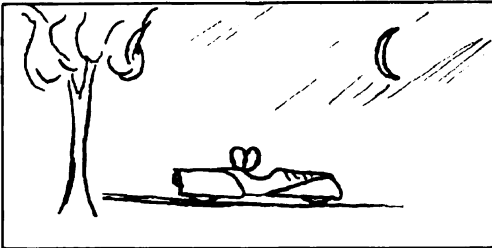


12. What is taking place in the picture?
- Three friends at a party.
 - A is the boss of B and C, and he is talking to them.
 - A is trying to settle an argument between B and C.
 - They are all members of the same family.
 - A is the mother of the children who are B and C.

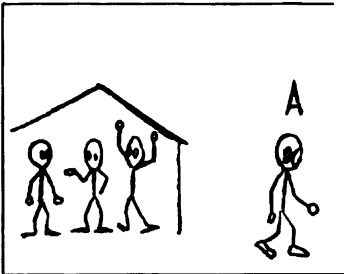
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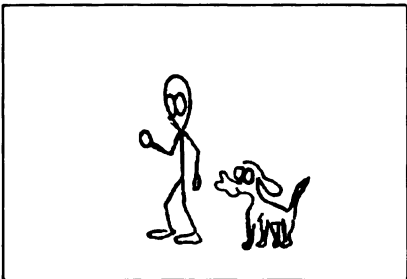
13. Who are the persons in the picture?
- B tried to commit suicide.
 - B is just taking a rest and a good friend came in to talk.
 - A is a nurse who is treating B.
 - A and B are husband and wife.
 - B is having a baby and will be a new mother.



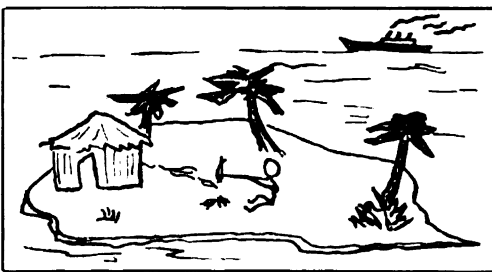
14. What is taking place in the automobile?
- Man and wife on vacation, and they are having a good time.
 - Father and daughter driving.
 - Two business partners talking.
 - A boy and girl on a date.
 - Mother and daughter driving.



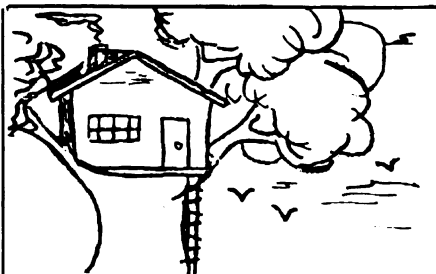
15. What is A doing in the picture?
- The other three do not want A in their group.
 - A is the father of the family.
 - A is worrying about some big problem which he has.
 - A is trying to organize a social club.
 - A is the mother of the family.



16. What is the dog in the picture doing?
- The dog and child are just playing.
 - The child is training the dog to do some new tricks.
 - The dog wants to make friends.
 - The dog is trying to bite the person.
 - The dog caught the child stealing.

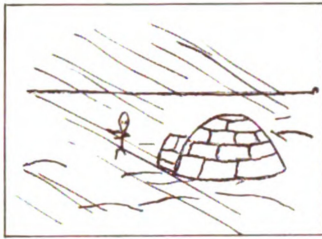


17. What is taking place in the picture?
- The person on the island was stranded in a shipwreck.
 - The island is a lighthouse to guide ships.
 - The ship is lost at sea.
 - A tribal family on an island.
 - A savage church and a mission.



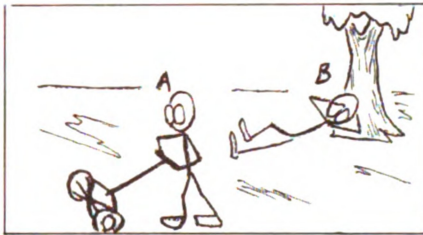
18. What is the house in the tree?
- A children's playhouse.
 - The home of a hermit who is alone.
 - A person who is trying to make peace with savages.
 - Home of a beautiful princess.
 - A hide-out for some robbers.

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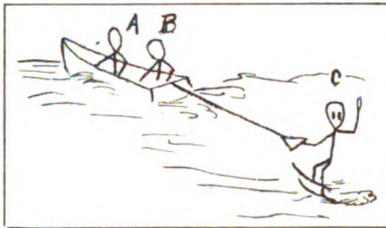
19. What is the Eskimo 'igloo' used for?

- a. A dance hall.
- b. A school house.
- c. A court of justice.
- d. A social club.
- e. A family house.



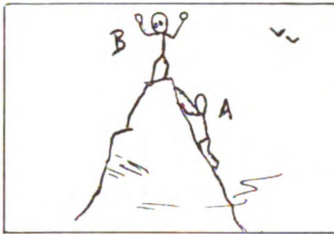
20. Who is B in the picture?

- a. A very sad person.
- b. A friend taking it easy.
- c. A religious minister or preacher.
- d. The brother of A.
- e. The mother of A.



21. What is taking place in the picture?

- a. A, B, and C are friends on a vacation.
- b. C is trying to win a contest.
- c. C is worried about some problem which he has.
- d. A and B are brothers of C.
- e. C does not trust A and is trying to get him to stop the boat.



22. What is happening in this picture?

- a. Two lonely persons on a mountain.
- b. Two children running away from home.
- c. Two professors trying to solve a problem.
- d. Man and wife on a camping trip.
- e. A is spying on B because he does not trust him.



23. What is taking place in the picture?

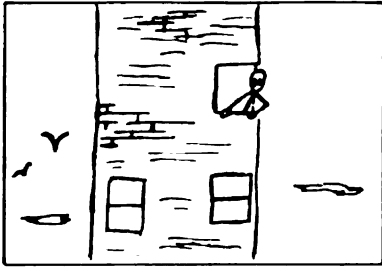
- a. A happy person playing music.
- b. An army bugler getting soldiers out of bed.
- c. A drunken fellow making a fool out of himself.
- d. A high school class dance.
- e. Trying to collect money to give to the poor people.



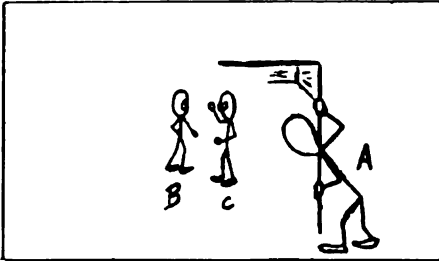
24. What is the person in the picture doing?

- a. Digging a grave for a dead person.
- b. Building a house for his own family.
- c. Hunting for a buried treasure.
- d. Building a house for club meetings.
- e. Trying to bury his money so that it will not be stolen.

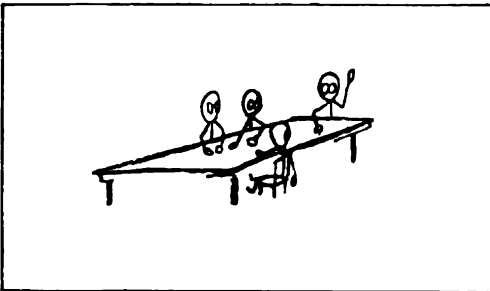
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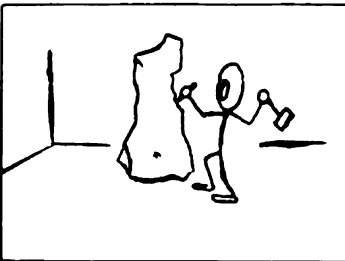
25. What is the person in the window doing?
- Trying to commit suicide.
 - Just passing some time looking out.
 - Trying to keep a person in the next building from jumping out.
 - Trying to flirt with a girl next door.
 - Calling for help to people next door.



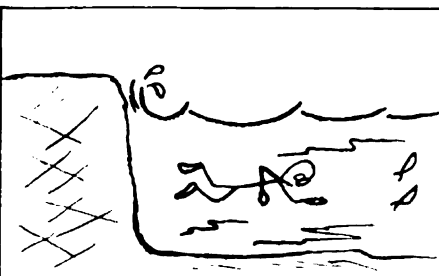
26. What is taking place in the picture?
- A is planning to rob B and C.
 - It is a school playground.
 - It is a meeting at a community church.
 - B and C are sisters who are playing with their brother, who is A.
 - A is a prison guard.



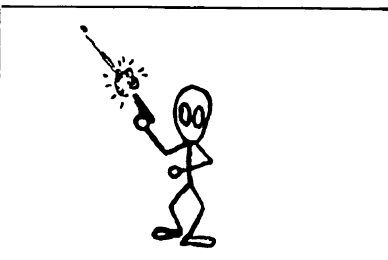
27. What is taking place in the picture?
- It is a picnic dinner with friends.
 - A boss scolding some workmen.
 - People trying to solve a very difficult problem.
 - Boys with their girl friends on a dinner date.
 - Thieves planning a big robbery.



28. What is taking place in this picture?
- A person working on his hobby.
 - Carving the statue of a great army general.
 - A policeman trying to solve a big crime.
 - Carving the statue of a beautiful woman.
 - A convict or prisoner on a labor gang.

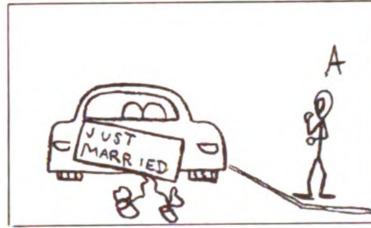


29. What is taking place in this picture?
- A person who is drowned and is dead.
 - A captain of a swimming team.
 - A person trying to catch some fish.
 - A girl in a Bikini or short bathing suit.
 - A person who is drowning and is crying for help.



30. What is the man shooting the gun for?
- He is starting a horse race at the fair.
 - A policeman is doing target practice.
 - A hunter who is lost in the woods, and is trying to attract his buddies.
 - A drunk trying to attract some girls who are nearby.
 - A policeman after a robber.

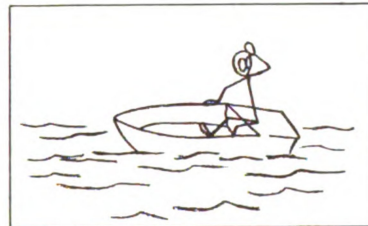
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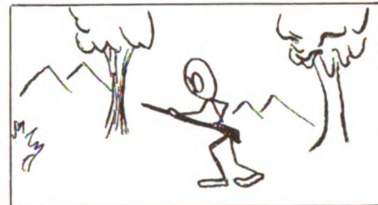
31. Who is A in this picture?
- A very sad ex-boy friend of the bride.
 - A happy father of the bride.
 - Don't know who it might be.
 - A happy brother of the bride.
 - A happy mother of the bride.



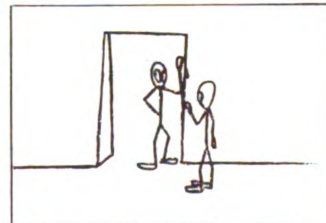
32. What is the person doing in the picture?
- A person is reading a very happy story.
 - A preacher studying his sermon for Sunday.
 - A lawyer reading a law book to find out if something is legal.
 - A girl reading poetry to her lover.
 - A baseball coach reading a new book of rules.



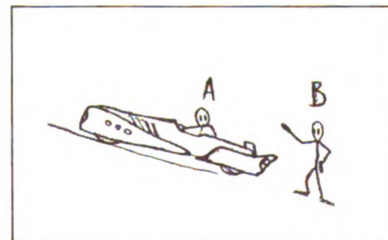
33. What is the person in the boat doing?
- Having a good time on a vacation.
 - Went fishing to get out of a family quarrel.
 - He is angry because he lost a sail and he cannot get home.
 - He is a member of a boat club.
 - He is afraid because he thinks a big storm is coming up and he has no sail.



34. What is the person with the gun doing?
- On a hunting trip with friends.
 - A policeman trying to catch a robber.
 - Likes to fish better, but went hunting to please his friends.
 - He is in a fight with another person and is trying to shoot him.
 - He is trying to learn how to shoot a new gun which his father gave him.

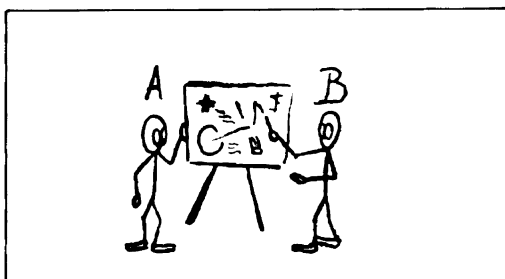


35. What is taking place in the picture?
- Two friends are planning for a party they want to give shortly.
 - Two persons just talking.
 - An angry person scolding a salesman.
 - A boy trying to make a date with a girl who lives next door.
 - An anxious mother getting milk for her baby.

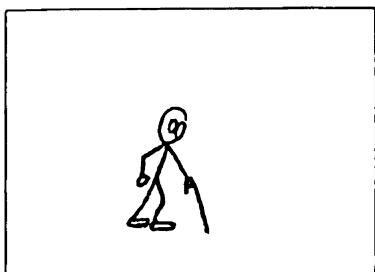


36. What is taking place in this picture?
- Two persons going for a ride in a new car.
 - B is trying to sell A a new car.
 - B is scolding his son for taking the family car without permission.
 - B is saying goodbye to his wife who is going to a club meeting.
 - B is trying to buy a new car.

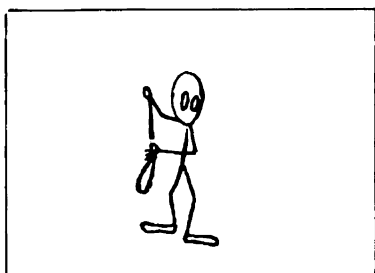
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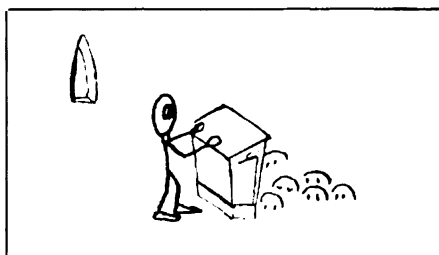
37. What is taking place in the picture?
- A and B are making a new invention.
 - B is explaining how A failed a test in school.
 - A and B are trying to find out why their new invention doesn't work.
 - B is explaining how to make money to a partner.
 - B is trying to find out from a doctor what his illness is.



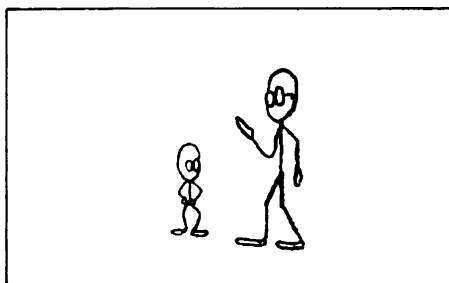
38. What is the man with the cane doing?
- Someone has just picked his pocket.
 - Going for a walk in the park.
 - Trying to decide whether to go hunting.
 - The president of a large company or factory.
 - Collecting money to help build a new church.



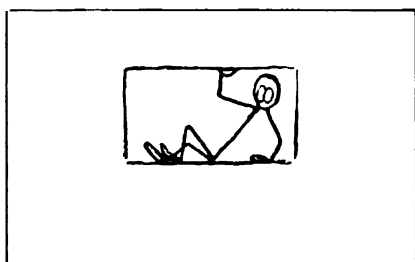
39. What is the rope used for in the picture?
- A person plans to commit suicide with it.
 - It is a cowboy's lasso.
 - To be used for a tug-of-war or game.
 - A mad group or crowd wants to use it to lynch or hang someone.
 - A church bell rope.



40. What is the preacher's sermon about?
- A funeral sermon.
 - About gambling in the small town.
 - On war and communism.
 - On marriage problems and the raising of children.
 - An Easter sermon during sunrise services.

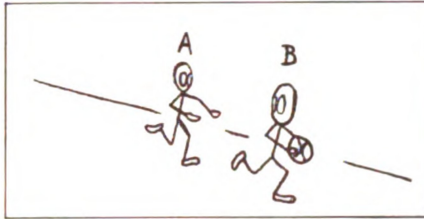


41. What is the person doing with the child?
- Taking the child to a circus.
 - Giving orders to a young worker.
 - Scolding the child for breaking a window with a ball.
 - A parent talking to his child.
 - Telling a child about the troubles of old people.

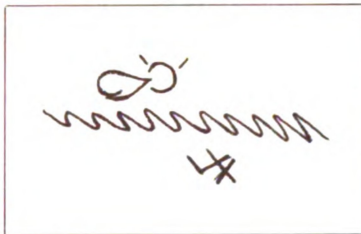


42. What is taking place in the picture?
- A child playing a game of hide-and-seek with friends.
 - A child hiding from an angry parent.
 - Trying to find where a treasure is hidden.
 - Hiding from the police.
 - Watching for a thief.

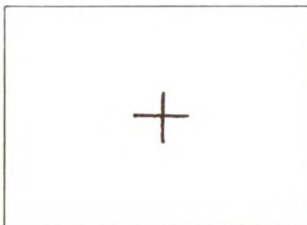
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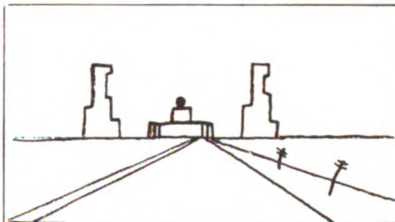
43. What are the persons in the picture doing?
- A and B are playing ball together.
 - They have broken a neighbor's window and are running away.
 - A is mad or angry at B and is trying to catch him.
 - B has stolen the ball from A.
 - B does not trust A very much.



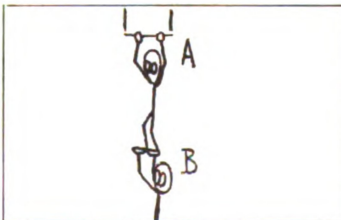
44. What do the drawings in the picture represent?
- A sunny spring day in the country.
 - A bull fight in Mexico.
 - A big thunderstorm.
 - A group of cows grazing in the pasture.
 - A bank hold-up and robbery.



45. What could the symbol in this picture represent?
- Money in the bank.
 - Not anything but a plus sign.
 - Cross roads of life and mystery.
 - Religion.
 - The symbol of a gangster or of a group of bad boys.



46. What is this picture about?
- A vacation resort where people come to spend their holidays.
 - Only a picture to place on a wall.
 - The site of a conference about a very important world problem.
 - An airfield in a war battle zone.
 - A family altar where prayers are said.

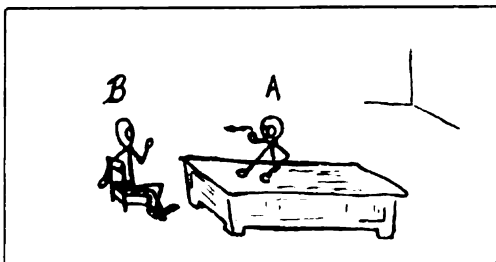


47. What is taking place in the picture?
- Children playing on a swing.
 - B is trying to get A to answer his mother who is calling for him to come home.
 - A and B are crawling cautiously to the edge of a dangerous canyon.
 - Two brothers are building a swing.
 - Two burglars are entering a home.

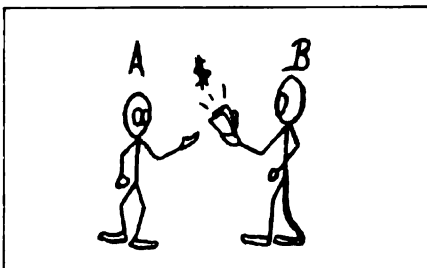


48. What are the two persons doing in the boat?
- They are arguing about where they should go.
 - They are just talking to pass time.
 - Trying to decide where to stop for the night.
 - Partners in a business and are talking about the money they have made.
 - Game wardens or policemen spying on some hunters.

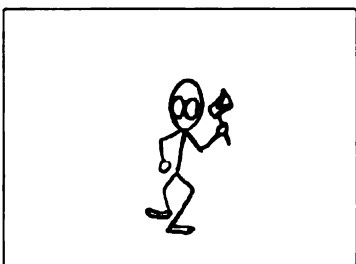
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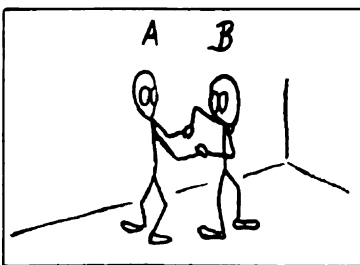
49. What is taking place between A and B?
- They are planning to build a new building.
 - A, the boss, is firing B.
 - A and B are trying to solve a problem.
 - Two business men making a deal.
 - B is trying to borrow some money from A.



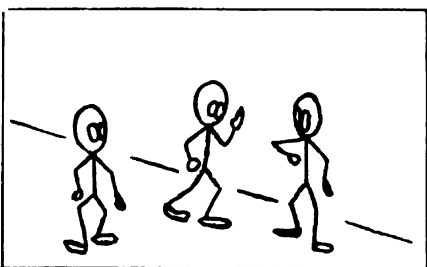
50. What are the persons doing in this picture?
- A is buying an airplane ticket to Paris for a pleasure trip.
 - B is giving A his weekly pay check.
 - B is buying a ticket to go to the mountains alone.
 - B is buying candy to give to his girl friend.
 - A is collecting money to help the poor.



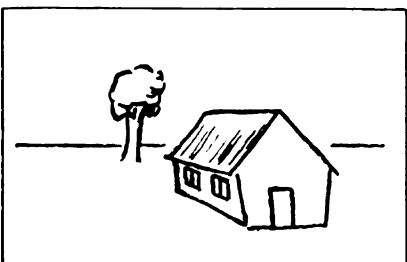
51. What is the person in the picture doing with the hatchet?
- A carpenter is building a house.
 - It is only a toy.
 - It is an angry boy with a toy.
 - An Indian with a tomahawk fighting a war.
 - A hungry boy trying to find something to eat in the mountains.



52. Who are the persons in the picture?
- Two children playing.
 - B is teasing A who is smaller.
 - A is angry and wants to run away.
 - A boy is dancing with his best girl friend.
 - Mother and daughter are holding hands in their home.

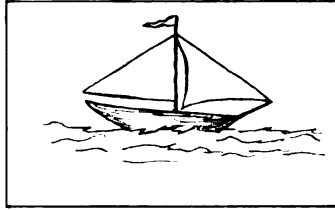


53. The three persons in this picture are?
- People at a party talking.
 - A boss talking to some workers.
 - Three persons trying to find something to do.
 - Three persons arguing with each other.
 - Two natives talking to a missionary in an uncivilized country.

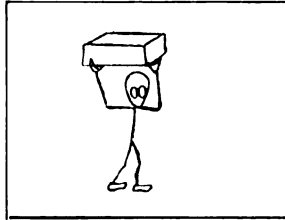


54. What is going on inside the house?
- There is a big party going on.
 - No one is in the house.
 - Two parents are arguing with some older children.
 - It is a school which is in session.
 - It is a church which is in session.

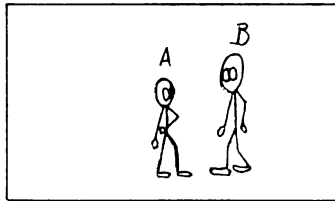
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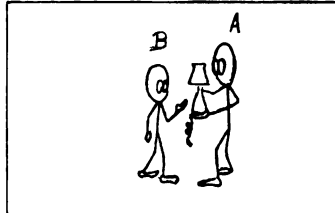
55. What is happening to the ship?
- It is sinking out in the ocean.
 - It is just passing by in the water.
 - It is caught in a big storm.
 - It is taking a newly married couple on their honeymoon.
 - It is a pirate ship and has robbers on it.



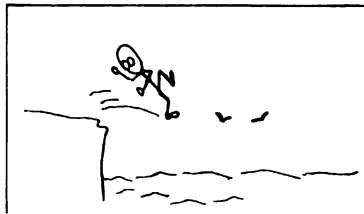
56. What is the person doing in the picture?
- Building some furniture for a new home.
 - Trying to sell vegetables on the street.
 - Angry and breaking up a good piece of furniture.
 - Building a new home for his family.
 - Building a new church for the community.



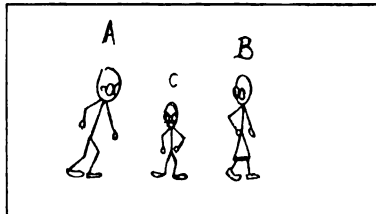
57. What are the persons in the picture doing?
- They are going on a long trip together.
 - B is the father and is showing A how to dance.
 - B is worried about A's sickness, and wants to take him to a doctor.
 - B is picking a fight with the little fellow, A.
 - B wants to take A to the movies.



58. What is taking place in the picture?
- A and B are fixing up their home.
 - A is trying to sell a light to B.
 - A is trying to decide which one of the lights he wants to buy.
 - A is the mother of B, and is giving him a gift.
 - B does not know A and doesn't trust him.

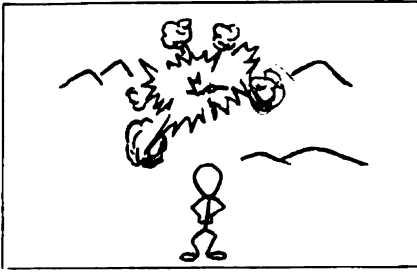


59. What is the person in the picture doing?
- Just playing in the water with others.
 - He is trying to catch someone, but only in fun.
 - They are practicing an act for the circus.
 - He is trying to learn how to dive.
 - A gang of bad boys is chasing him, and he doesn't trust them.

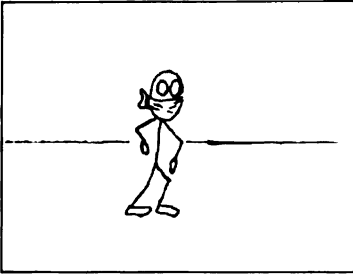


60. What is happening in the picture?
- A and B are going for a long stroll or walk in the park.
 - A and B are scolding C for being in the street.
 - A is angry because C ran into him.
 - It is a family going to the grocery store to shop.
 - C is trying to run away from home.

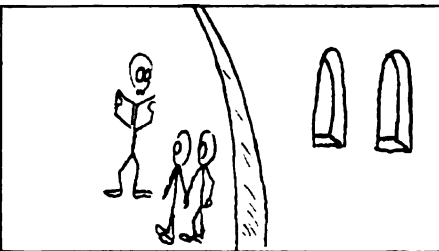
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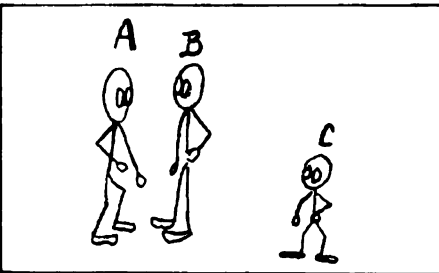
61. What is taking place in the picture?
- A home is burning down.
 - Only a picture to be placed on the wall.
 - The man is trying to keep the fire from spreading to other buildings.
 - The boy set the house on fire.
 - A man is burning some very secret materials to keep the police from getting them.



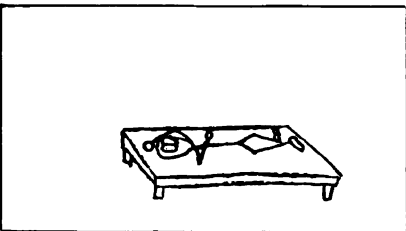
62. Who could the person in the picture be?
- A sick person with a bad cold.
 - It could be anyone.
 - A doctor ready to operate on a sick patient.
 - Someone at a masquerade ball.
 - A robber planning a hold-up.



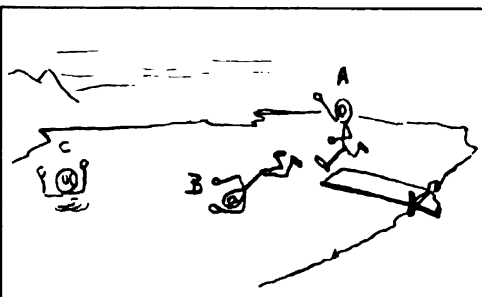
63. What is happening in the picture?
- A funeral for a man and wife who were killed in an accident.
 - Two people talking to a preacher.
 - New members joining a church.
 - Divorce proceedings in a court of justice.
 - A court hearing on the will of a rich man who just died.



64. What are the persons doing?
- A and B are worried because C is sick.
 - A family going for a stroll in the park near their home.
 - B, the mother, is trying to make up with A, the father, after a quarrel.
 - B is trying to pick a fight with A, and they are neighbors.
 - B thinks that A has stolen something from him.

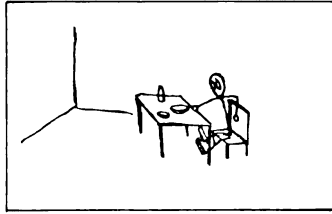


65. What is the person doing in the picture?
- He has been hurt in an accident.
 - He is just resting in the sun.
 - He is planning some work which he wants to do.
 - He is the boss of a big factory taking a rest.
 - A robber whom the police have just killed.

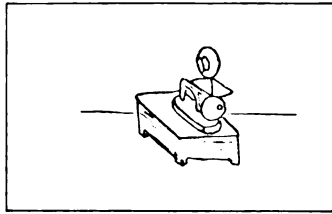


66. What is taking place in the picture?
- A is pushing B into the water.
 - Three persons trying to forget their troubles.
 - C is trying to get A and B to stop fighting, and he is very angry.
 - Three neighbors who have built a pool.
 - C is pretending he is drowning.

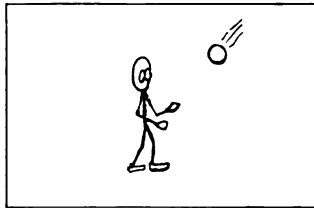
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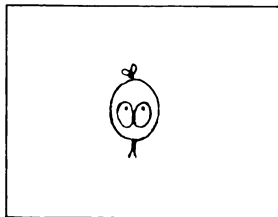
67. What is taking place in the picture?
- The food is poisoned.
 - The person wants to eat alone.
 - He is waiting for the food to cool so that he can eat it.
 - It is his birthday and he is celebrating.
 - The man is very hungry and is waiting to be served by the waiter.



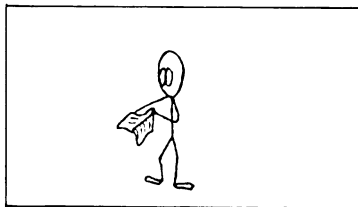
68. What is the woman in the picture doing?
- She is lonely and is working to forget.
 - She is just trying to pass time but is not lonely.
 - She is working at a store and is showing how the sewing machine works.
 - She is making clothes for her children.
 - She is trying to learn how to sew.



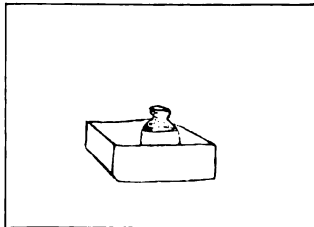
69. What will happen to the ball in the picture?
- He will not catch the ball and will be sorry.
 - He is not trying to catch the ball, but is just passing by.
 - He is angry because he missed the ball.
 - He is playing ball with his girl friend.
 - The mother is throwing a ball to her young child.



70. What will happen to the bee on the person's head?
- The bee will sting the boy and he will be sick.
 - It is only a dream the boy is having.
 - The bee will fly away.
 - He will kill the bee before it stings him.
 - He is crying for his mother to help catch the bee before it stings him.

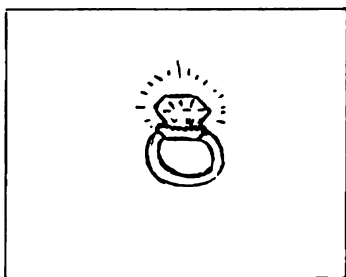


71. What is the person in the picture doing?
- He is taking a test because he is sick.
 - He is just acting silly.
 - He is a doctor trying to make a test for sick people to take.
 - He is a member of a group of scientists who are working on a test.
 - It is a mother dressing for a party.

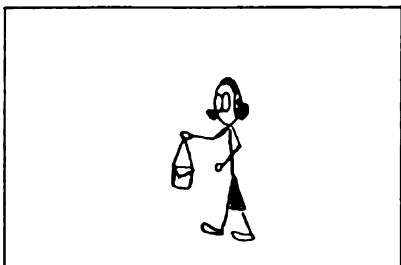


72. What is contained in the box?
- A poison to kill someone.
 - Just some drinking water.
 - Some wine for a dinner party.
 - Some explosive material for war.
 - Some milk or food for a baby.

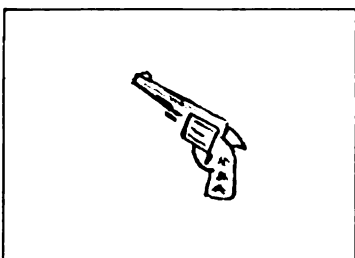
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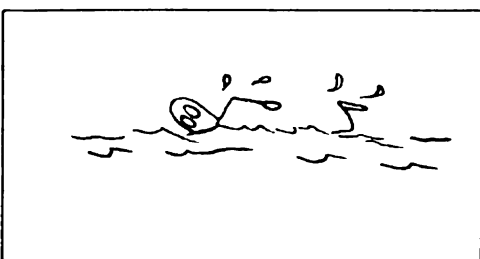
73. What is the precious stone in the picture?
- A very valuable gift from a dead mother.
 - A graduation gift from a father on completing high school.
 - Someone lost it and is very cross and angry.
 - It is a wedding ring from a husband.
 - It is only a cheap one, but looks very much like an expensive one.



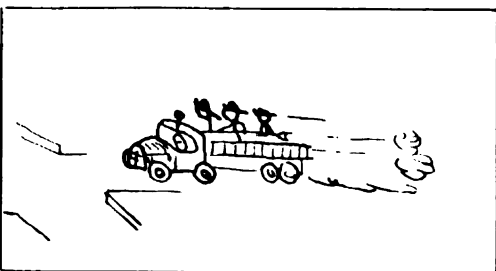
74. What is the woman carrying in her bag?
- Poison to kill someone.
 - Money to pay someone.
 - A mysterious object and no one knows what it is.
 - A wild animal.
 - Food to make dinner for her family.



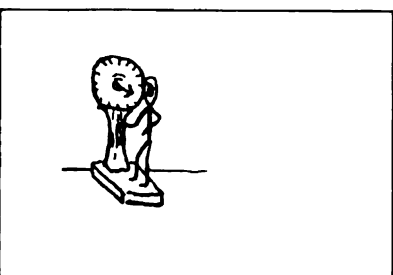
75. What is the gun for?
- A person wants to commit suicide or kill himself.
 - It is only a toy.
 - It is loaded but nobody knows that it is.
 - It belongs to a soldier.
 - It belongs to a robber.



76. The person in the water is?
- Having a good time swimming.
 - He is trying to save someone from drowning.
 - He is going to drown himself.
 - He is showing off in front of some young girls.
 - He is trying to learn to swim.

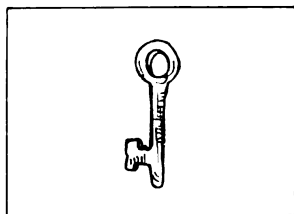


77. The fire engine in the picture is?
- Going to put out a big fire.
 - They are just taking a ride; there is no fire.
 - It doesn't work right, and they are fixing it.
 - They are going to a fireman's party.
 - It was a false alarm; there is no fire.

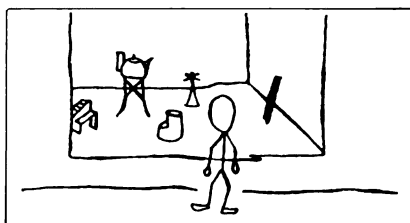


78. The person on the scales will?
- Find he is just the right weight, and is happy.
 - He weighs a little too much.
 - He is worried because he is too heavy.
 - He is on a very strict diet.
 - He would like to weigh more.

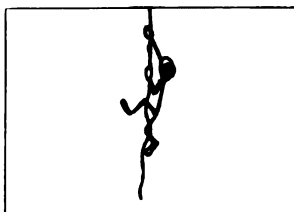
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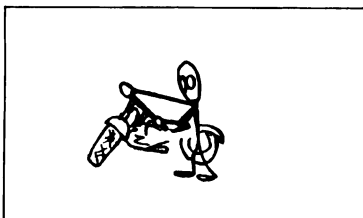
79. The key in the picture is best described as?
- A key to happiness.
 - A key to wealth, money, and power.
 - A key that doesn't fit anything.
 - A key to a new home for your family.
 - A key to a prison for thieves and robbers.



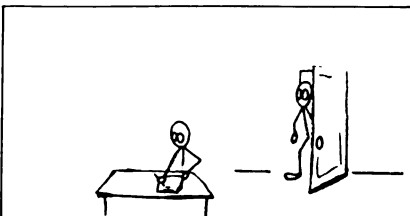
80. The boy, looking in the store window at all of the things which are for sale, is?
- Sad because he has no money to buy the things he wants.
 - Just looking, and doesn't want anything.
 - Angry because he has no money to buy things he would like to buy.
 - Has the money and is planning to buy things.
 - Is planning to break the window and steal.



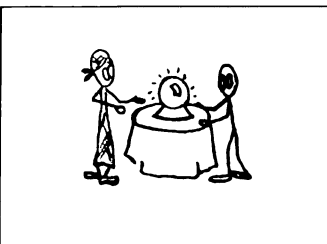
81. The person on the rope in the picture is?
- Escaping from a prison.
 - Climbing up on a roof to help put out a fire.
 - He is practicing a rope-climbing trick.
 - He is showing off for some girls who are watching.
 - It is a monkey dressed like a person with an organ-grinder.



82. The boy with the motorcycle is not riding because?
- He is not allowed to ride it.
 - He doesn't want to ride.
 - The motorcycle does not work, and will not run.
 - He is trying to fix the motorcycle, and he is pushing it to get it started.
 - He is too old and is afraid.

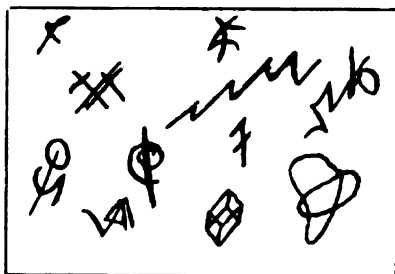


83. The person coming through the door in the picture is?
- A thief or robber.
 - A father.
 - No person who is known.
 - A brother or sister.
 - A mother or grandmother.



84. The fortune teller in the picture is telling the person?
- He will have bad luck in the near future.
 - He will become rich and become famous.
 - He will soon have big problems and things to worry about.
 - He will soon get married and raise a family.
 - He is being watched by some enemies.

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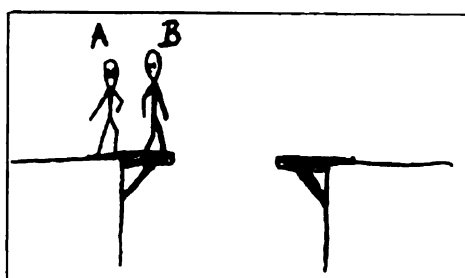
85. The "doodles" in this picture were likely made by what kind of person?

- An unhappy and sad person.
- A person who is just daydreaming and passing time.
- A person who is very angry.
- A widow with small children.
- A person who does not trust other people.



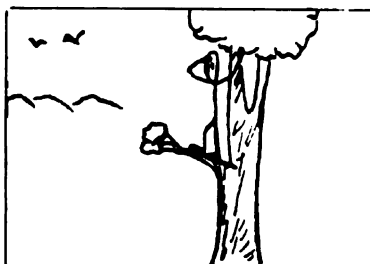
86. People who live in this castle are best described as?

- Don't get along well with their neighbors.
- Don't know their neighbors very well.
- Are liked and are very cooperative with neighbors.
- Are mean to neighbors.
- Are often dishonest.



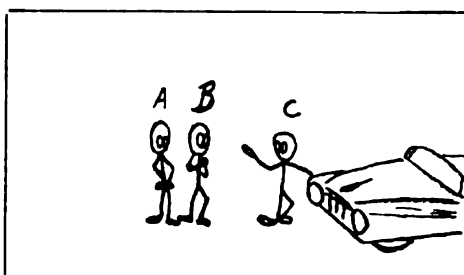
87. What are A and B doing on the bridge?

- B is trying to jump off the bridge and wants to kill himself.
- Two persons just passing time.
- Trying to figure out how to complete the bridge.
- A fellow taking his girl for a walk.
- Breaking down a neighbor's bridge.



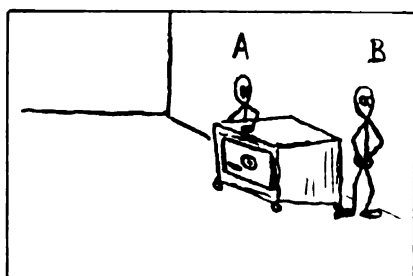
88. What is the person in the tree doing?

- A person who is hiding from the police.
- A child getting away from an angry and cross teacher.
- An angry person who is lost, and is trying to find his way home.
- A boy scout leader camping out.
- A policeman trying to find a prisoner.



89. What is taking place in the picture?

- C is telling his parents about an accident.
- Three persons running away from home.
- C is trying to get A and B to pay for the repairs of their own cars.
- A fellow trying to take two girls for a ride in his new car.
- C is a policeman who found a stolen car with A and B in it.



90. What is taking place in this picture?

- A and B feel bad because they can't move the safe.
- A and B are just looking, and they have nothing to do with the safe.
- B is angry because the safe is broken.
- A and B are moving the safe.
- A and B are trying to steal some valuable papers.

CATC

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1-6

PSYCHOLOGICAL TEST SPECIALISTS

BE SURE YOUR MARKS ARE HEAVY AND BLACK.
ERASE COMPLETELY ANY ANSWER YOU WISH TO CHANGE.

SUCC

AFF

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WITH

NURT

DEJ

HAP

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F

AGE: YR

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DATE

NAME: LAST

GPPT GPPT GPPT

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GROUP PERSONALITY PROJECTIVE TEST

R. N. CASSEL AND T. C. KAHN

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SUMMARY

	1 RAW	2 T	3 b	4 (1×3)
TRQ			8	
NURT			3	
WITH			8	
NEU			4	
AFF			1	
SUCC			8	

RAW TOT

TOT = $\frac{\text{RAW TOT}}{10}$ =

$$\text{TRQ} = \frac{100 \text{ DEJ}}{\text{HAP} + \text{DEJ}} = \frac{100}{\text{HAP} + \text{DEJ}} =$$

NAME _____ SCHOOL _____ TESTER _____ DATE _____

Note: Raw score values corresponding to T-score levels for unselected norms are given in the columns of this profile chart. Ordinarily the user will simply mark the raw scores obtained in the appropriate columns and connect these seven points to construct the profile.**

GPPT PROFILE

T Score	TRQ	NURT	WITH	NEU	AFF	SUCC	TOTAL	T Score
80	57	17	20	30	33	21	79	80
75	52	16	19	28	32	19	71	75
70	48	15	18	27	29	17	69	70
65	43	13	17	25	28	15	65	65
60	34	12	15	23	27	13	57	60
55	29	11	13	20	25	10	51	55
50	23	10	11	18	23	8	46	50
45	17	8	10	15	20	7	41	45
40	9	7	9	13	18	5	37	40
35	5	6	7	12	16	3	29	35
30	3	5	6	10	14	2	24	30
25	2	4	5	8	12	1	20	25
20	1	2	4	6	10	0	15	20

**If the user wishes to use norms for other groups, he will find the T-score equivalents in tables in the GPPT manual. These T-score levels can be entered in the columns, and a profile drawn through the points. Be sure to indicate which norms were used.

Norms used: _____

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