

8-1978

# Demographic Characterization of WISC-R Factor Score Profiles

Don Twyman

Follow this and additional works at: <http://digitalcommons.wku.edu/theses>



Part of the [Child Psychology Commons](#)

---

## Recommended Citation

Twyman, Don, "Demographic Characterization of WISC-R Factor Score Profiles" (1978). *Masters Theses & Specialist Projects*. Paper 1825.

<http://digitalcommons.wku.edu/theses/1825>

This Thesis is brought to you for free and open access by TopSCHOLAR®. It has been accepted for inclusion in Masters Theses & Specialist Projects by an authorized administrator of TopSCHOLAR®. For more information, please contact [topscholar@wku.edu](mailto:topscholar@wku.edu).

DEMOGRAPHIC CHARACTERIZATION OF WISC-R  
FACTOR SCORE PROFILES

A Thesis

Presented to

the Faculty of the Department of Psychology

Western Kentucky University

Bowling Green, Kentucky

In Partial Fulfillment

of the Requirements for the Degree

Master of Arts

by

Don G. Twyman

August 1978

AUTHORIZATION FOR USE OF THESIS

Permission is hereby

granted to the Western Kentucky University Library to make, or allow to be made photocopies, microfilm or other copies of this thesis for appropriate research or scholarly purposes.

reserved to the author for the making of any copies of this thesis except for brief sections for research or scholarly purposes.

Signed Don Ferguson

Clint Hays

Date 12-5-78

Please place an "X" in the appropriate box.

This form will be filed with the original of the thesis and will control future use of the thesis.

DEMOGRAPHIC CHARACTERISTICS OF WISC-R  
FACTOR SCORE PROFILES

Recommended 10-23-78

(Date)

Daniel A. Shiel

Co-Director of Thesis

C. Clinton Layne

Co-Director of Thesis

Richard L. Mills

Approved November 2, 1978

(Date)

Elmer Gray  
Dean of the Graduate College

#### ACKNOWLEDGEMENTS

I would like to express my sincere thanks and appreciation to Dr. David A. Shiek whose advice and guidance as co-director of this thesis were invaluable; his encouragement and understanding made this project possible. The timely assistance and effort of co-director Dr. C. Clinton Layne were also critical to this endeavor. To Dr. Richard L. Miller I extend a special thanks for his patience and encouragement as advisor and member of my thesis committee throughout my graduate work.

Finally, I wish to express my love and gratitude to my wife, Paula C. Twyman, without whose understanding and assistance this thesis would never have reached completion.

TABLE OF CONTENTS

Chapter	Page
1. Introduction and Review of Literature . . . . .	1
2. Method . . . . .	4
3. Results and Discussion . . . . .	6
Overall Distributions . . . . .	6
Individual Profiles . . . . .	7
111 . . . . .	7
112 . . . . .	7
113 . . . . .	7
121 . . . . .	7
122 . . . . .	8
123 . . . . .	8
131-133 . . . . .	8
211 . . . . .	8
212 . . . . .	9
213 . . . . .	9
221 . . . . .	9
222 . . . . .	9
223 . . . . .	10

Individual Profiles (Con't.)	Page
231. . . . .	10
232. . . . .	10
233. . . . .	10
311. . . . .	11
312. . . . .	11
313. . . . .	11
321. . . . .	11
322. . . . .	11
323. . . . .	12
331. . . . .	12
332. . . . .	12
333. . . . .	12
4. Implications . . . . .	14
5. References . . . . .	15
6. General Note and Explanation for Appendices. . . . .	16
7. Appendices . . . . .	18
A. Total Raw Data with Percent of Each Cell . . . . .	19
B. Total and Percent of Total of Students Scoring Profile 111 in Relation to Demographic Characteristics and Age. . . . .	22
C. Total and Percent of Total of Students Scoring Profile 112 in Relation to Demographic Characteristics by Age . . . . .	24
D. Total and Percent of Total of Students Scoring Profile 121 in Relation to Demographic Characteristics by Age . . . . .	26

	Page
E. Total and Percent of Total of Students Scoring Profile 122 in Relation to Demographic Characteristics by Age. . . . .	28
F. Total and Percent of Total of Students Scoring Profile 123 in Relation to Demographic Characteristics by Age. . . . .	30
G. Total and Percent of Total of Students Scoring Profile 211 in Relation to Demographic Characteristics by Age. . . . .	31
H. Total and Percent of Total of Students Scoring Profile 212 in Relation to Demographic Characteristics by Age. . . . .	33
I. Total and Percent of Total of Students Scoring Profile 213 in Relation to Demographic Characteristics by Age. . . . .	35
J. Total and Percent of Total of Students Scoring Profile 221 in Relation to Demographic Characteristics by Age. . . . .	36
K. Total and Percent of Total of Students Scoring Profile 222 in Relation to Demographic Characteristics by Age. . . . .	38
L. Total and Percent of Total of Students Scoring Profile 223 in Relation to Demographic Characteristics by Age. . . . .	40
M. Total and Percent of Total of Students Scoring Profile 231 in Relation to Demographic Characteristics by Age. . . . .	42
N. Total and Percent of Total of Students Scoring Profile 232 in Relation to Demographic Characteristics by Age. . . . .	43
O. Total and Percent of Total of Students Scoring Profile 233 in Relation to Demographic Characteristics by Age. . . . .	45
P. Total and Percent of Total of Students Scoring Profile 312 in Relation to Demographic Characteristics by Age. . . . .	47



	Page
Q. Total and Percent of Total of Students Scoring Profile 321 in Relation to Demographic Characteristics by Age. . . . .	48
R. Total and Percent of Total of Students Scoring Profile 322 in Relation to Demographic Characteristics by Age. . . . .	49
S. Total and Percent of Total of Students Scoring Profile 323 in Relation to Demographic Characteristics by Age. . . . .	51
T. Total and Percent of Total of Students Scoring Profile 331 in Relation to Demographic Characteristics by Age. . . . .	53
U. Total and Percent of Total of Students Scoring Profile 332 in Relation to Demographic Characteristics by Age. . . . .	54
V. Total and Percent of Total of Students Scoring Profile 333 in Relation to Demographic Characteristics by Age. . . . .	56
AA. Percents of Students Scoring Between and Within Demographic Characteristic Subcategories by Profile. . . . .	57
BB. Percents of Students Scoring Profile 111 Between and Within Demographic Characteristic Subcategories . . . . .	60
CC. Percents of Students Scoring Profile 112 Between and Within Demographic Characteristic Subcategories . . . . .	61
DD. Percents of Students Scoring Profile 121 Between and Within Demographic Characteristic Subcategories . . . . .	62
EE. Percents of Students Scoring Profile 122 Between and Within Demographic Characteristic Subcategories . . . . .	63
FF. Percents of Students Scoring Profile 123 Between and Within Demographic Characteristic Subcategories . . . . .	64
GG. Percents of Students Scoring Profile 211 Between and Within Demographic Characteristic Subcategories . . . . .	65

	Page
HH. Percents of Students Scoring Profile 212 Between and Within Demographic Characteristic Subcategories. . . . .	66
II. Percents of Students Scoring Profile 213 Between and Within Demographic Characteristic Subcategories. . . . .	67
JJ. Percents of Students Scoring Profile 221 Between and Within Demographic Characteristic Subcategories. . . . .	68
KK. Percents of Students Scoring Profile 222 Between and Within Demographic Characteristic Subcategories. . . . .	69
LL. Percents of Students Scoring Profile 223 Between and Within Demographic Characteristic Subcategories. . . . .	70
MM. Percents of Students Scoring Profile 231 Between and Within Demographic Characteristic Subcategories. . . . .	71
NN. Percents of Students Scoring Profile 232 Between and Within Demographic Characteristic Subcategories. . . . .	72
OO. Percents of Students Scoring Profile 233 Between and Within Demographic Characteristic Subcategories. . . . .	73
PP. Percents of Students Scoring Profile 312 Between and Within Demographic Characteristic Subcategories. . . . .	74
QQ. Percents of Students Scoring Profile 321 Between and Within Demographic Characteristic Subcategories. . . . .	75
RR. Percents of Students Scoring Profile 322 Between and Within Demographic Characteristic Subcategories. . . . .	76
SS. Percents of Students Scoring Profile 323 Between and Within Demographic Characteristic Subcategories. . . . .	77
TT. Percents of Students Scoring Profile 331 Between and Within Demographic Characteristic Subcategories. . . . .	78

	Page
UU. Percents of Students Scoring Profile 332 Between and Within Demographic Characteristic Subcategories. . . . .	79
VV. Percents of Students Scoring Profile 333 Between and Within Demographic Characteristic Subcategories. . . . .	80

DEMOGRAPHIC CHARACTERIZATION OF WISC-R  
FACTOR SCORE PROFILES

Don G. Twyman

August 1978

80 Pages

Directed by: D. A. Shiek, C. C. Layne, and R. L. Miller

Department of Psychology

Western Kentucky University

Factor score profiles based on scores in the standardization sample for the Wechsler Intelligence Scale for Children--Revised were visually surveyed for patterns of the demographic characteristics sex, race, parent's occupation, and region and area of residence, these characteristics having been listed with the intelligence quotients obtained in the standardization sample. Patterns of the demographic characteristics and frequencies were described over the range of profiles, then the various profiles were described individually in terms of percentage of frequency and predominant demographic characteristics. The profile descriptions demonstrate a differential distribution of characteristics in relation to profiles, and suggest investigation of associations between the profiles and other variables, such as personality traits and pathological behaviors.

## INTRODUCTION AND REVIEW OF LITERATURE

In the manual for his original Wechsler Intelligence Scale for Children (WISC), Wechsler (1949) described two dimensions by which intelligence quotients could be obtained using the test; these quotients were designated Performance and Verbal. In addition, he spoke of a third type of ability which he named "intellective"; he offered no means of describing this latter ability in terms of measurement, but stated that it affects "the utilization of other capacities."

An alternate approach to conceptualizing the ability dimensions assessed by the WISC utilized factor analytical procedures. Cohen (1959) performed a factor analysis on the original WISC standardization data for age levels 7 1/2, 10 1/2, and 13 1/2, finding three significant factors which he named Verbal Comprehension, Perceptual Organization, and Freedom from Distractibility; however, the latter factor was significant only at age 13 1/2. In his review of factor analytic studies with WISC data, Sattler (1974) stated that no factor structure reliable across age levels had been found. Kaufman (1975) performed a factor analysis on the standardization data for the Wechsler Intelligence Scale for Children--Revised (WISC-R) for all the age levels and reported a three factor structure which was significant from age eight to sixteen. He concluded that the third factor, Freedom from

Distractibility, was a developmental phenomenon, becoming applicable at age eight and being much more stable for the WISC-R than for the WISC.

The subtests on the Verbal section of the WISC-R correlated highly with the Verbal Comprehension factor and the Performance subtests correlated highly with Perceptual Organization in Kaufman's analysis; these results, therefore, supported Wechsler's Performance and Verbal divisions of the WISC-R. The Arithmetic, Digit Span, and Coding subtests were the principal components of the Freedom from Distractibility factor.

To test the robustness of the factor structure demonstrated by Kaufman (1975), Shiek and Miller (1978) did a similar analysis on data obtained from a group of ten year old students which differed significantly from the standardization sample. They found no significant differences between the factor structure present in their sample and that reported by Kaufman for ten year olds. Therefore, they concluded that the structure was stable across the two different groups.

The next step in the development of factor structure for the WISC-R was the construction of factor scores. Shiek (in preparation) used the salient components for the factors as delineated by Kaufman (1975) to establish standardization factor scores. To minimize excessive relative error variance associated with subtests of low correlation with the individual factors, only the highly salient subtests were included. The component subtests

were weighted equally within each factor as recommended by Gorsuch (1974). Using the standardization data, Shiek established standardization factor scores for each age group. The standardization scores were in the form of a nineteen point scale with a mean of ten and standard deviation of three which was similar to the scaled scores utilized by Wechsler.

With factor conversions available for the WTSC-R standardization data, characteristics of students scoring at various factor levels were surveyed in an attempt to describe each factor in terms of the available demographic characteristics.

#### METHOD

The data utilized in this study were drawn from Wechsler's (1974) standardization data for the WISC-R. As all three factors were not stable for ages six and seven, the data from these two age levels are not included. The subjects in this study consisted of nine groups of 200 students, one group for each age level of years eight through sixteen. The selection procedure used by Wechsler was designed to make each group of 200 students representative of the population of the United States at each age level with respect to sex, race, parent's occupation, region (northeastern, northcentral, southern, or western), and area (urban or rural). A more detailed description of the population may be found in Wechsler's (1974) manual for the WISC-R.

Following the logical procedure used in the development of the Minnesota Multiphasic Personality Inventory (MMPI; Marks, Seeman, and Haller, 1974) and to provide easily recognizable profiles for further study, the nineteen point scale was divided into three categories. The continuous scale was collapsed into three levels: low or 1 = 1 through 6, which was more than one standard deviation below the mean; middle or 2 = 7 through 13, which was within one standard deviation to either side of the mean; and high or 3 = 14 through 19, which was more than one standard deviation above



the mean (Shiek, in preparation). According to this method, a three element profile was generated for each subject in the standardization group with the order of the elements in each profile being Verbal Comprehension, Perceptual Organization, and Freedom from Distractibility.

The assumption that a difference in the level of one factor will represent significant differences between subjects scoring one level or the other is patterned after the method of reporting and analyzing MMPI results (Marks, Secman, and Haller, 1974). For example, a profile of 123 indicates that a subject scored more than one standard deviation below the mean on Verbal Comprehension, within one standard deviation of the mean on Perceptual Organization, and more than one standard deviation above the mean on Freedom from Distractibility.

The purpose of this study was to survey profile data visually based on the WISC-R standardization sample in terms of the percent of the total frequency of each profile and the frequencies of these profiles in relation to age and the demographic variables sex, race, parent's occupation, and region and area of residence. The unique characteristics of each code type were identified and described.

## RESULTS AND DISCUSSION

### Overall Distributions (See Appendix A and AA)

Generally, considering the order of profiles listed in the appendices and referring to profile 111 as the low point of the scale and profile 333 as the high point, males predominated at the high point of the scale while females predominated at the low point; these differences were small, however. In relation to race, a much greater proportion of whites scored at the high end of the scale than blacks or others, and many more blacks than white or others scored at the low end. In terms of occupation, a large proportion of children whose parents had professional or managerial positions scored higher than those whose parents were operators or laborers. Regionally, children from the south performed somewhat below those from other regions, but these differences did not approach those for race or parent's occupation. Finally, no pattern appeared to differentiate children from a rural background from those from more populous areas.

In this sample, no child produced a profile low on two factors and high on one, and only one child scored high on two factors and low on one; so these combinations appear to be extremely rare or possibly nonexistent. Profiles with one factor high and one low comprised less than one percent of this sample; thus, these

are unusual also. As expected, profiles at the extremes of the scale were low in frequency, with slightly more than sixty percent of all subjects scoring in the middle range on Verbal Comprehension and Perceptual Organization.

#### Individual Profiles

Profile 111 (See Appendices B and BB). Children scoring at this level represented 3.6% of the total sample. These children were most frequently nine or sixteen years old, reared by parents who were operative workers, from the southern region, and from urban areas.

Profile 112 (See Appendices C and CC). Children scoring at this level represented 2.6% of the total sample. These children were most frequently eleven or fourteen years old, female, black, reared by parents who were operative workers, from the southern region, and from urban areas.

Profile 113 No students in the WISC-R standardization sample scored this profile; therefore, profile 113 appears to be extremely rare and possibly nonexistent.

Profile 121 (See Appendices D and DD). Children scoring at this level represented 2.0% of the total sample. These children

were most frequently fourteen years old, male, white, reared by parents who were operative workers, from the southern region, and from rural areas.

Profile 122 (See Appendices E and EE). Children scoring at this level represented 4.3% of the total sample. These children were most frequently twelve years old, female, white, reared by parents who were operative workers, from the southern region, and from urban areas.

Profile 123 (Appendices F and FF). Children scoring at this level represented .2% of the total sample. These children were most frequently eight years old, female, and from urban areas; distribution was spread over subcategories of the other demographic variables. Because so few students scored this profile, the data must be viewed very cautiously; however, because the sampling procedure was carefully developed, this description may be valid.

Profiles 131-133. No students in the WISC-R standardization sample scored these profiles; therefore, profiles 131, 132, and 133 appear to be extremely rare and possibly nonexistent.

Profile 211 (See Appendices G and GG). Children scoring at this level represented 1.3% of the total sample. These children were most frequently fifteen years old, male, white, reared by parents who were operative workers, from the southern region, and

from urban areas.

Profile 212 (See Appendices H and HH). Children scoring at this level represented 4.9% of the total sample. These children were most frequently fifteen years old, female, white, reared by parents who were operative workers, from the southern region, and from urban areas.

Profile 213 (See Appendices I and II). Children scoring at this level represented .1% of the total sample. Both children in this sample were sixteen years old and white; no other characteristics appeared more than once. While these two characteristics may be valid, these data must be viewed cautiously due to the small number of students scoring this profile.

Profile 221 (See Appendices J and JJ). Children scoring at this level represented 4.4% of the total sample. These children were most frequently eight years old, male, white, reared by parents who were either operative workers or craftsmen, from either the northcentral or southern regions, and from urban areas.

Profile 222 (See Appendices K and KK). Children scoring at this level represented 51.3% of the total sample. These children were most frequently nine years old, female, white, reared by parents who were operative workers, from the northcentral region, and from urban areas.

Profile 223 (See Appendices L and LL). Children scoring at this level represented 5.6% of the total sample. These children were most frequently twelve years old, female, white, children of managerial personnel, from the northeastern region, and from urban areas.

Profile 231 (See Appendices M and MM). Children scoring at this level represented .3% of the total sample. These children were most frequently ten years old, male, white, reared by parents who were craftsmen or operative workers, and from the southern or western regions; they were evenly distributed in relation to urban and rural locations. While these data may be valid, they must be viewed cautiously due to the small number of students scoring this profile.

Profile 232 (See Appendices N and NN). Children scoring at this level represented 5.1% of the total sample. These children were most frequently sixteen years old, male, white, reared by parents who were managerial personnel, from the northcentral region, and from urban areas.

Profile 233 (See Appendices O and OO). Children scoring at this level represented 1.4% of the total sample. These children were most frequently female, white, reared by parents who were managerial personnel, from the northeastern region, and from urban areas.

Profile 311. No student in the WISC-R standardization sample scored this profile; therefore, this profile appears to be extremely rare and possibly nonexistent.

Profile 312 (See Appendices P and PP). The child scoring at this level represented .1% of the total sample. This child was fifteen years old, male, white, reared by a professional parent, from the southern region, and from an urban area. While this description may be valid, it must be viewed cautiously because only one of 2,000 students scored this profile.

Profile 313. No student in the WISC-R standardization sample scored this profile; therefore, this profile appears to be extremely rare and possibly nonexistent.

Profile 321 (See Appendices Q and QQ). Children scoring at this level represented .2% of the total sample. These children were most frequently eleven years old, male, white, reared by parents who were craftsmen, from the southern region, and from rural areas. While these data may be valid, they must be viewed cautiously as so few students scored this profile.

Profile 322 (See Appendices R and RR). Children scoring at this level represented 2.8% of the total sample. These children were most frequently fifteen years old, male, white, reared by

parents who were managerial personnel, from the southern region, and from urban areas.

Profile 323 (See Appendices S and SS). Children scoring at this level represented 2.8% of the total sample. These children were most frequently fifteen years old, white, reared by parents who were professionals, from the northeastern region, and from rural areas; they were evenly distributed in relation to sex.

Profile 331 (See Appendices T and TT). The child scoring at this level represented .1% of the total sample. This child was fifteen years old, male, white, reared by a parent who was an operative worker, from the northcentral region, and from a rural area. While this description may be valid, it must be viewed cautiously as only one person in this sample of 2,000 scored this profile.

Profile 332 (See Appendices U and UU). Children scoring at this level represented 2.4% of the total sample. These children were most frequently nine years old, male, white, reared by parents who were professionals, from the northcentral region, and from urban areas.

Profile 333 (See Appendices V and VV). Children scoring at this level represented 1.9% of the total sample. These children were most frequently ten or twelve years old, male, white, reared by



parents who were managerial personnel, from the northeastern region, and from urban areas.

## IMPLICATIONS

Just as each factor score profile from the WISC-R standardization data has a pattern of most frequently occurring demographic characteristics, so probably exists a pattern of personality traits, social attributes, and academic aptitude and achievement characteristics. Possibly certain profiles denote pathology, particularly in relation to learning capabilities and capacities; for example, profile 331 might represent a child with high academic aptitude but low performance due to a behavioral and/or minimal brain dysfunction disorder. Research possibilities for the investigation of such prospective associations are practically unlimited, and could make the factor score profile system a widely applicable, practicable, and useful tool.

REFERENCES

- Gorsuch, R. L. Factor analysis. Philadelphia: W. B. Saunders, 1974.
- Kaufman, A. S. Factor analysis of the WISC-R at 11 age levels. Journal of Consulting and Clinical Psychology, 1975, 43(2), 135-147.
- Marks, P. A., Seeman, W., & Haller, D. L. The actuarial use of the MMPI with adolescents and adults. Williams and Wilkins, 1974.
- Sattler, J. M. Assessment of children's intelligence. Philadelphia: W. B. Saunders, 1974.
- Shiek, D. A. WISC-R factor score manual. Bowling Green, Ky.: Western Kentucky University, in preparation.
- Shiek, D. A., & Miller, J. E. Validity generalization of the WISC-R factor structure with 10 1/2-year-old children. Journal of Consulting and Clinical Psychology, 1978, 46(3), 583.
- Wechsler, D. Manual for the Wechsler Intelligence Scale for Children-Revised. New York: Psychological Corporation, 1974.

GENERAL NOTE AND EXPLANATION FOR APPENDICES

Abbreviations used in the column heads are to be interpreted as follows: PR = profile; M = male; F = female; O = other; P = professional and technical workers; MA = managers, officials, proprietors, clerks, and salespeople; C = craftsmen and foremen; OP = operators, laborers, and farm foremen; NE = northeast; NC = north central; SO = southern; WE = western; U = urban; and R = rural.

In Appendix A, the upper value in each cell represents the number of subjects from the total sample whose characteristics and scores placed them in that cell. The lower value represents the percentage of the total sample which the upper value comprises.

In Appendices B through V, the upper value in each cell represents the number of subjects from the total sample whose characteristics and scores placed them in that cell. The lower value represents the percentage of the 200 subjects for the age bracket listed at the left which the upper number comprises.

In Appendix AA, the upper value represents the percentage of subjects who fall within the subcategory listed above in relation to the total number of subjects falling in the pertinent demographic category and scoring the profile listed at the left. The lower value represents the percentage of subjects within the above listed subcategory who scored the profile listed at the left.

In Appendices BB through VV, the upper value represents the percentage of subjects within the above listed subcategory in relation to the total number of subjects falling within the pertinent demographic category for the age level to the left and the profile listed at the top of the table. The lower value represents the percentage of subjects at the age level listed to the left whose characteristics in terms of the above listed subcategory and profile place them in that cell.

APPENDICES

## Appendix A

Total and Percent of Total of Students Scoring at Each Profile Level  
in Relation to Demographic Characteristics By Age

FR	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
111	30	34	30	32	2	2	6	5	33	18	7	11	39	7	42	22	64	
	1.7	1.9	1.7	1.8	.1	.1	.3	.3	1.8	1	.4	.6	2.2	.4	2.3	1.2	3.6	
112	15	31	22	24	0	4	8	7	16	11	11	9	24	2	35	11	46	
	.8	1.7	1.2	1.3	0	.2	.4	.4	.9	.6	.6	.5	1.3	.1	1.9	.6	0	
121	28	8	28	7	1	1	7	10	11	7	3	11	14	8	14	22	36	
	1.6	.4	1.6	.4	.1	.1	.4	.6	.6	.4	.2	.6	.8	.4	.8	1.2	2	
122	36	41	46	29	2	3	16	14	31	13	14	22	30	11	55	22	77	
	2	2.3	2.6	1.6	.1	.2	.9	.8	1.7	.7	.8	1.2	1.7	.6	3.1	1.2	4.3	
123	1	2	1	1	1	1	0	0	1	1	1	0	1	1	3	0	3	
	.1	.1	.1	.1	.1	.1	0	0	.1	.1	.1	0	.1	.1	.2	0	.2	
211	14	9	16	7	0	1	4	5	8	5	2	6	15	0	18	5	23	
	.8	.5	.9	.4	0	.1	.2	.3	.4	.3	.1	.3	.8	0	1	.3	1.3	
212	25	64	58	31	0	8	25	25	27	4	21	25	32	11	65	24	89	
	1.4	3.6	3.2	1.7	0	.4	1.4	1.4	1.5	.2	1.2	1.4	1.8	.6	3.6	1.3	4.9	
213	1	1	2	0	0	0	1	0	0	1	0	1	0	1	1	1	2	
	.1	.1	.1	0	0	0	.1	0	0	.1	0	.1	0	.1	.1	.1	.1	

## Appendix A (Con't.)

Total and Percent of Total of Students Scoring at Each Profile Level

in Relation to Demographic Characteristics By Age

PR	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
221	59 3.3	20 1.1	67 3.7	11 .6	1 .1	3 .2	20 1.1	27 1.5	27 1.5	2 .1	13 .7	25 1.4	25 1.4	16 .9	49 2.7	30 1.7	79 4.4	
222	444 24.7	479 26.6	824 45.8	93 5.2	6 .3	123 6.8	252 14	221 12.3	279 15.5	48 2.7	192 10.7	283 15.7	267 14.8	181 10.1	645 35.8	278 15.4	923 51.3	
223	43 2.4	58 3.2	92 5.1	7 .4	2 .1	20 1.1	29 1.6	25 1.4	25 1.4	2 .1	41 2.3	25 1.4	25 1.4	10 .6	78 4.3	23 1.3	101 5.6	
231	6 .3	0	5 .3	1 .1	0	1 .1	1 .1	2 .1	2 .1	0	1 .1	1 .1	2 .1	2 .1	3 .2	3 .2	6 .3	
232	50 2.8	41 2.3	88 4.9	2 .1	1 .1	21 1.2	30 1.7	15 .8	23 1.3	2 .1	21 1.2	32 1.8	21 1.2	17 .9	70 3.9	21 1.2	91 5.1	
233	9 .5	16 .9	24 1.3	0	1 .1	6 .3	10 .6	5 .3	3 .2	1 .1	4 .2	13 .7	5 .3	3 .2	20 1.1	5 .3	25 1.4	
312	1 .1	0	1 .1	0	0	1 .1	0	0	0	0	0	0	1 .1	0	1 .1	0	1 .1	
321	3 .2	0	3 .2	0	0	0	1 .1	2 .1	0	0	0	0	2 .1	1 .1	1 .1	2 .1	3 .2	



## Appendix A (Con't.)

## Total and Percent of Total of Students Scoring at Each Profile Level

## in Relation to Demographic Characteristics By Age

PR	Sex		Color			Parent's Occupation					Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
322	58 3.2	44 2.4	99 5.5	2 .1	1 .1	30 1.7	31 1.7	17 .9	20 1.1	4 .2	24 1.3	29 1.6	31 1.7	18 1	76 4.2	26 1.4	102 5.7
323	25 1.4	25 1.4	48 2.7	2 .1	0	17 .9	14 .8	11 .6	8 .4	0	18 1	8 .4	16 .9	8 .4	42 2.3	8 .4	50 2.8
331	1 .1	0	1 .1	0	0	0	0	0	1 .1	0	0	1 .1	0	0	0	1 .1	1 .1
332	32 1.8	12 .7	43 2.4	0	1 .1	16 .9	14 .8	8 .4	6 .3	0	8 .4	15 .4	12 .7	9 .5	33 1.8	11 .6	44 2.4
333	19 1.1	15 .8	33 1.8	0	1 .1	9 .5	15 .8	6 .3	4 .2	0	10 .6	9 .5	8 .4	7 .4	23 1.3	11 .6	34 1.9
Total	900	900	153	249	20	267	484	405	525	119	391	526	570	313	1274	526	1800
Percent of Total	50	50	85	13.8	1.1	14.8	26.9	22.5	29.2	6.6	21.7	29.2	31.7	17.4	70.8	24.2	100

## Appendix B

Total and Percent of Total of Students Scoring Profile III in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	3	1	2	2		1			3				1	2	1	3	1	4
	1.5	.5	1	1		.5			1.5				.5	1	.5	1.5	.5	2
9	4	7	3	8			2		5	4			3	8		8	3	11
	2	3.5	1.5	4			1		2.5	2			1.5	4		4	1.5	5.5
10	3	6	5	4		1	1	1	4	2	2	1	5	1	6	3	9	
	1.5	3	2.5	2		.5	.5	.5	2	1	1	.5	2.5	.5	3	1.5	4.5	
11	3	5	4	4				1	4	3			2	6		5	3	8
	1.5	2.5	2	2				.5	2	1.5			1	3		2.5	1.5	4
12	2	3	2	2	1				3	2	2					1	4	5
	1	1.5	1	1	.5				1.5	1	1		1.5			.5	2	2.5
13	4	3	5	2			1	1	3	2	1	2	2	2	5	2	7	
	2	1.5	2.5	1			.5	.5	1.5	1	.5	1	1	1	2.5	1	3.5	
14	3	2	2	2	1		1		1	3	1		2	2	3	2	5	
	1.5	1	1	1	.5		.5		.5	1.5	.5		1	1	1.5	1	2.5	
15	3	1	2	2			1	1	1	1		1	3		4		4	
	1.5	.5	1	1			.5	.5	.5	.5		.5	1.5		2		2	

## Appendix B (Con't.)

Total and Percent of Total of Students Scoring Profile III in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	5	6	5	6				1	9	1	1	1	8	1	7	4	11
	2.5	3	2.5	3				.5	4.5	.5	.5	.5	4	.5	3.5	2	5.5
Total	30	34	30	32	2	2	6	5	33	18	7	11	39	7	42	22	64

## Appendix C

## Total and Percent of Total of Students Scoring Profile 112 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	2	4	2	4		1	1	2		2		1	5		3	3	6
	1	2	1	2		.5	.5	1		1		.5	2.5		1.5	1.5	3
9	2	2	2	2		1	1		2			2	1	1	4		4
	1	1	1	1		.5	.5		1			1	.5	.5	2		2
10	1	3	3	1			2		1	1	1	2	1		3	1	4
	.5	1.5	1.5	.5			1		.5	.5	.5	1	.5		1.5	.5	2
11	1	6	3	4				2	4	1	1		6		6	1	7
	.5	3	1.5	2				1	2	.5	.5		3		3	.5	3.5
12	3	3	2	4		1	2		3		3		3		5	1	6
	1.5	1.5	1	2		.5	1		1.5		1.5		1.5		2.5	.5	3
13	4	1	3	2			1	1	2	1	1	1	2	1	2	3	5
	2	.5	1.5	1			.5	.5	1	.5	.5	.5	1	.5	1	1.5	2.5
14	1	6	3	4		1		1	3	2	1	1	5		5	2	7
	.5	3	1.5	2		.5		.5	1.5	1	.5	.5	2.5		2.5	1	3.5
15		4	3	1			1		1	2	3	1			4		4
		2	1.5	.5			.5		.5	1	1.5	.5			2		2

## Appendix C (Con't.)

## Total and Percent of Total of Students Scoring Profile 112 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	1	2	1	2				1		2	1	1	1		3		3
	.5	1	.5	1				15		1	.5	.5	.5		1.5		1.5
Total	15	31	22	24		4	8	7	16	11	11	9	24	2	35	11	46

## Appendix D

## Total and Percent of Total of Students Scoring Profile 121 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	4 2	1 .5	5 2.5			1 .5	2 1	1 .5	1 .5				3 1.5	2 1	1 .5	4 2	5 2.5	
9	3 1.5		3 1.5				1 .5	1 .5		1 .5			1 .5	2 1	2 1	1 .5	3 1.5	
10	2 1	2 1	4 2					1 .5	2 1	1 .5			2 1	2 1	1 .5	3 1.5	4 2	
11	2 1	1 .5	2 1	1 .5				1 .5	2 1				1 .5	2 1		2 1	3 1.5	
12	1 .5	1 .5	2 1				1 .5		1 .5				2 1			2 1	2 1	
13	4 2	1 .5	3 1.5	2 1			1 .5	2 1	1 .5	1 .5	1 .5	2 1	2 1		3 1.5	2 1	5 2.5	
14	4 2	2 1	4 2	2 1			1 .5		3 1.5	2 1	1 .5	2 1	2 1	1 .5	3 1.5	3 1.5	6 3	
15	3 1.5		2 1	1 .5				2 1		1 .5		1 .5	1 .5	1 .5	2 1	1 .5	3 1.5	

## Appendix D (Con't.)

## Total and Percent of Total of Students Scoring Profile 121 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	5		3	1	1		1	2	1	1	1	1	1	2	1	4	5
	2.5		1.5	.5	.5		.5	1	.5	.5	.5	.5	.5	1	.5	2	2.5
Total	28	8	28	7	1	1	7	10	11	7	3	11	14	8	14	22	36

## Appendix E

Total and Percent of Total of Students Scoring Profile 122 in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region					Area	Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	2	7	8	1		2		4	2	1	2	3	3	1	7	2	9	
	1	3.5	4	.5		1		2	1	.5	1	1.5	1.5	.5	3.5	1	4.5	
9	4	4	8				2		4	2	2	3	1	2	5	3	8	
	2	2	4				1		2	1	1	1.5	.5	1	2.5	1.5	4	
10	2	5	3	4			2	1	3	1	1	1	5		5	2	7	
	1	2.5	1.5	2			1	.5	1.5	.5	.5	.5	2.5		2.5	1	3.5	
11	5	3	6	2			3	2	3		2	3	3		6	2	8	
	2.5	1.5	3	1			1.5	1	1.5		1	1.5	1.5		3	1	4	
12	5	9	6	7	1		5		4	5	2	3	7	2	9	5	14	
	2.5	4.5	3	3.5	.5		2.5		2	2.5	1	1.5	3.5	1	4.5	2.5	7	
13	1	4	1	4		1		2	2			2	2	1	3	2	5	
	.5	.5	.5	2		.5		1	1			1	1	.5	1.5	1	2.5	
14	5	1	4	2			1	1	3	1	2	3	1		6		6	
	2.5	.5	2	1			.5	.5	1.5	.5	1	1.5	.5		3		3	
15	7	5	6	6			1	3	6	2	2	4	5	1	9	3	12	
	3.5	2.5	3	3			.5	1.5	3	1	1	2	2.5	.5	4.5	1.5	6	



## Appendix E (Con't.)

Total and Percent of Total of Students Scoring Profile 122 in

Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
16	5	3	4	3	1		2	1	4	1	1		3	4	5	3	8	
	2.5	1.5	2	1.5	.5		1	.5	2	.5	.5		1.5	2	2.5	1.5	4	
Total	36	41	46	29	2	3	16	14	31	13	14	22	30	11	55	22	77	

## Appendix F

Total and Percent of Total of Students Scoring Profile 123 in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	1 .5	1 .5	1 .5		1 .5				1 .5	1 .5	1 .5				1 .5	2 1	2 1
16		1 .5		1 .5		1 .5							1 .5		1 .5	1 .5	1 .5
Total	1	2	1	1	1	1	0	0	1	1	1	0	1	1	3	0	3

## Appendix G

Total and Percent of Total of Students Scoring Profile 211 in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region					Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	1 .5	2 .5	1 .5	2 1			1 .5			2 1			3 1.5		3 1.5		3 1.5	
9	1 .5	1 .5		2 1		1 .5		1 .5					2 1		2 1		2 1	
10	2 1	2 1	4 2				1 .5	1 .5	2 1			2 1	2 1		3 1.5	1 .5	4 2	
11		1 .5	1 .5							1 .5		1 .5				1 .5	1 .5	
12	2 1		2 1							2 1			2 1		2 1		2 1	
13	1 .5			1 .5				1 .5					1 .5		1 .5		1 .5	
14	1 .5		1 .5						1 .5				1 .5			1 .5	1 .5	
15	3 1.5	2 1	4 2	1 .5			2 1		1 .5	2 1			5 2.5		4 2	1 .5	5 2.5	

## Appendix G (Con't.)

Total and Percent of Total of Students Scoring Profile 211 in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	3	1	3	1				2	2			2	2				
	1.5	.5	1.5	.5				1	1			1	1		1.5	.5	4
Total	14	9	16	7	0	1	4	5	8	5	2	6	15	0	18	5	23

## Appendix H

Total and Percent of Total of Students Scoring Profile 212 in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	8	5	10	3		1	6	3	2	1	4	5	4		8	5	13	
	4	2.5	5	1.5		.5	3	1.5	1	.5	2	2.5	2		4	2.5	6.5	
9	1	9	7	3			2	3	5		1	3	5	1	8	2	10	
	.5	4.5	3.5	1.5			1	1.5	2.5		.5	1.5	2.5	.5	4	1	5	
10	3	9	6	6		2	2	3	5		2	1	7	2	7	5	12	
	1.5	4.5	3	3		1	1	1.5	2.5		1	.5	3.5	1	3.5	2.5	6	
11	3	5	3	5			3	2	3		2	2	3	1	8		8	
	1.5	2.5	1.5	2.5			1.5	1	1.5		1	1	1.5	.5	4		4	
12	2	3	2	3			1	2	1	1	1	1	2	1	3	2	5	
	1	1.5	1	1.5			.5	1	.5	.5	.5	.5	1	.5	1.5	1	2.5	
13	1	8	8	1		1	2	4	2		3	3		3	8	1	9	
	.5	4	4	.5		.5	1	2	1		1.5	1.5		1.5	4	.5	4.5	
14	4	6	7	3		1	3	2	3	1	3	4	1	2	8	2	10	
	2	3	3.5	1.5		.5	1.5	1	1.5	.5	1.5	2	.5	1	4	1	5	
15	1	14	9	6		3	5	4	2	1	2	3	9	1	10	5	15	
	.5	7	4.5	3		1.5	2.5	2	1	.5	1	1.5	4.5	.5	5	2.5	7.5	

## Appendix H (Con't.)

## Total and Percent of Total of Students Scoring Profile 212 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	2	5	6	1			1	2	4		3	3	1		5	2	7
	1	2.5	3	.5			.5	1	2		1.5	1.5	.5		2.5	1	3.5
Total	25	64	58	31	0	8	25	25	27	4	21	25	32	11	65	24	89

## Appendix I

## Total and Percent of Total of Students Scoring Profile 213 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	1	1	2				1			1		1		1	1	1	2
	.5	.5	1				.5			.5		.5		.5	.5	.5	1
Total	1	1	2	0	0	0	1	0	0	1	0	1	0	1	1	1	2

## Appendix J

Total and Percent of Total of Students Scoring Profile 221 in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region					Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R			
8	9	4	11	2			5	3	5		3	6	2	2	7		6	13	
	4.5	2	5.5	1			2.5	1.5	2.5		1.5	3	1	1	3.5		3	6.5	
9	4		4					3	1		1		1	2	2		2	4	
	2		2					1.5	.5		.5		.5	1	1		1	2	
10	6	3	8	1		1	3	2	3		2	5	2		3		6	9	
	3	1.5	4	.5		.5	1.5	1	1.5		1	2.5	1		1.5		3	4.5	
11	5	2	6	1			2	3	2		1		3	3	5		2	7	
	2.5	1	3	.5			1	1.5	1		.5		1.5	1.5	2.5		1	3.5	
12	7	1	4	3	1		3		4	1		1	3	4	7		1	8	
	3.5	.5	2	1.5	.5		1.5		2	.5		.5	1.5	2	3.5	.5		4	
13	9	2	9	2		1		2	7	1	1	3	6	1	8		3	11	
	4.5	1	4.5	1		.5		1	3.5	.5	.5	1.5	3	.5	4	1.5		5.5	
14	9	1	8	2		1	3	5	1		3	3	3	1	7		3	10	
	4.5	.5	4	1		.5	1.5	2.5	.5		1.5	1.5	1.5	.5	3.5	1.5		5	
15	6	2	8				2	3	3			4	3	1	4		4	8	
	3	1	4				1	1.5	1.5			2	1.5	.5	2	2		4	



Appendix J (Con't.)

Total and Percent of Total of Students Scoring Profile 221 in

Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	4	5	9				2	6	1		2	3	2	2	6	3	9
	2	2.5	4.5				1	3	.5		1	1.5	1	1	3	1.5	4.5
Total	59	20	67	11	1	3	20	27	27	2	13	25	25	16	49	30	79

## Appendix K

Total and Percent of Total of Students Scoring Profile 222 in  
Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region					Area	Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	46	52	86	12		11	22	25	33	7	16	25	35	22	62	36	98	
	23	26	43	6		5.5	11	12.5	16.5	3.5	8	12.5	17.5	11	31	18	49	
9	55	56	96	14	1	16	32	26	33	4	21	34	39	17	79	32	111	
	27.5	28	48	7	.5	8	16	13	16.5	2	10.5	17	19.5	8.5	39.5	16	55.5	
10	52	45	85	12		8	29	20	34	6	20	35	23	19	70	27	97	
	26	22.5	42.5	6		4	14.5	10	17	3	10	17.5	11.5	9.5	35	13.5	43.5	
11	54	55	99	10		15	30	24	31	9	22	36	30	21	80	29	109	
	27	27.5	49.5	5		7.5	15	12	15.5	4.5	11	18	15	10.5	40	14.5	54.5	
12	53	56	103	5	1	19	26	32	29	3	20	41	30	18	76	33	109	
	26.5	28	51.5	2.5	.5	9.5	13	16	14.5	1.5	10	20.5	15	9	38	16.5	54.5	
13	53	52	93	11	1	10	32	24	31	8	24	30	30	21	72	33	105	
	26.5	26	46.5	5.5	.5	5	16	12	15.5	4	12	15	15	10.5	36	16.5	52.5	
14	45	61	91	14	1	15	32	28	29	2	24	30	32	20	80	26	106	
	22.5	30.5	45.5	7	.5	7.5	16	14	14.5	1	12	15	16	10	40	13	53	
15	40	53	83	8	2	14	25	20	29	5	22	26	19	26	63	30	93	
	20	26.5	41.5	4	1	7	12.5	10	14.5	2.5	11	13	9.5	13	31.5	15	46.5	

## Appendix K (Con't.)

Total and Percent of Total of Students Scoring Profile 222 in

Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region					Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
16	46	49	88	7		15	24	22	30	4	23	26	29	17	63	32	95	
	23	24.5	44	3.5		7.5	12	11	15	2	11.5	13	14.5	8.5	31.5	16	47.5	
Total	444	479	824	93	6	123	252	221	279	48	192	283	267	181	645	278	923	

## Appendix L

## Total and Percent of Total of Students Scoring Profile 223 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region					Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R			
8	3	9	12			5	3	3	1		6	3	3		11	1	12		
	1.5	4.5	6			2.5	1.5	1.5	.5		3	1.5	1.5		5.5	.5	6		
9	4	7	11			3	1	2	4	1	7	3		1	9	2	11		
	2	3.5	5.5			1.5	.5	1	2	.5	3.5	1.5		.5	4.5	1	5.5		
10	4	9	12	1		4	4	3	2		4	2	7		9	4	13		
	2	4.5	6	.5		2	2	1.5	1		2	1	3.5		4.5	2	6.5		
11	6	4	10			1	4	3	2		7	1	2		9	1	10		
	3	2	5			.5	2	1.5	1		3.5	.5	1		4.5	.5	5		
12	6	8	12	1	1	1	5	4	3	1	6	3	2	3	11	3	14		
	3	4	6	.5	.5	.5	2.5	2	1.5	.5	3	1.5	1	1.5	5.5	1.5	7		
13	4	7	9	1	1		4	3	4		3	2	3	3	8	3	11		
	2	3.5	4.5	.5	.5		2	1.5	2		1.5	1	1.5	1.5	4	1.5	5.5		
14	4	6	10			1	3	2	4		2	2	4	2	5	5	10		
	2	3	5			.5	1.5	1	2		1	1	2	1	2.5	2.5	5		
15	6	3	8	1		1	2	4	2		3	5		1	8	1	9		
	3	1.5	4	.5		.5	1	2	1		1.5	2		.5	4	.5	4.5		

## Appendix L (Con't.)

## Total and Percent of Total of Students Scoring Profile 223 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	6	5	8	3		4	3	1	3		3	4	4		8	3	11
	3	2.5	4	1.5		2	1.5	.5	1.5		1.5	2	2		4	1.5	5.5
Total	43	58	92	7	2	20	29	25	25	2	41	25	25	10	78	23	101

## Appendix M

## Total and Percent of Total of Students Scoring Profile 231 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region			Area		Total	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U		R
9	1 .5		1 .5					1 .5					1 .5			1 .5	1 .5
10	2 1		2 1			1 .5		1 .5				1 .5		1 .5	1 .5	1 .5	2 1
13	1 .5		1 .5						1 .5				1 .5		1 .5		1 .5
14	1 .5			1 .5					1 .5					1 .5		1 .5	1 .5
16	1 .5		1 .5				1 .5				1 .5				1 .5		1 .5
Total	6	0	5	1	0	1	1	2	2	0	1	1	2	2	3	3	6

## Appendix N

## Total and Percent of Total of Students Scoring Profile 232 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	9	2	10	1		2	4		5		5	3	2	1	9	2	11	
	4.5	1	5	.5		1	2		2.5		2.5	1.5	1	.5	4.5	1	5.5	
9	4	3	7			2		3	2		1	3	2	1	6	1	7	
	2	1.5	3.5			1		1.5	1		.5	1.5	1	.5	3	.5	3.5	
10	3	3	6			3		3			3	2	1		4	2	6	
	1.5	1.5	3			1.5		1.5			1.5	1	.5		2	1	3	
11	4	4	8			2	3	2	1		3	2	2	1	6	2	8	
	2	2	4			1	1.5	1	.5		1.5	1	1	.5	3	1	4	
12	3	4	7			2	2	1	2		1	1	4	1	5	2	7	
	1.5	2	3.5			1	1	.5	1		.5	.5	2	.5	2.5	1	3.5	
13	4	7	10		1	2	5		4		2	3	3	3	8	3	11	
	2	3.5	5.5		.5	1	2.5		2		1	1.5	1.5	1.5	4	1.5	5.5	
14	5	5	10			3	4		3		1	4	1	4	8	2	10	
	2.5	2.5	5			1.5	2		1.5		.5	2	.5	2	4	1	5	
15	10	3	13			3	5	3	2		2	6	2	3	9	4	13	
	5	1.5	6.5			1.5	2.5	1.5	1		1	3	1	1.5	4.5	2	6.5	

## Appendix N (Con't.)

Total and Percent of Total of Students Scoring Profile 232 in

Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	8	10	17	1		2	7	3	4	2	3	8	4	3	15	3	18
	4	5	8.5	.5		1	3.5	1.5	2	1	1.5	4	2	1.5	7.5	1.5	9
Total	50	41	88	2	1	21	30	15	23	2	21	32	21	17	70	21	91



## Appendix O

## Total and Percent of Total of Students Scoring Profile 233 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	2 1	2 1	3 1.5		1 .5	1 .5	2 1		1 .5			2 1	1 .5		1 .5	4 2		4 2
9	1 .5	1 .4	2 1						2 1				2 1			2 1		2 1
10	3 1.5	1 .5	4 2			1 .5	2 .		1 .5				2 1		2 1	4 2		4 2
11		3 1.5	3 1.5			1 .5	1 .5	1 .5					3 1.5			2 1	1 .5	3 1.5
12	1 .5	1 .5	2 1				1 .5			1 .5			1 .5	1 .5		1 .5	1 .5	2 1
13		4 2	4 2			1 .5	2 1	1 .5				1 .5	2 1	1 .5		3 1.5	1 .5	4 2
14	1 .5	2 1	3 1.5			1 .5	1 .5	1 .5					1 .5	2 1		2 1	1 .5	3 1.5
15		1 .5	1 .5			1 .5							1 .5			1 .5		1 .5

## Appendix O (Con't.)

## Total and Percent of Total of Students Scoring Profile 233 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	1	1	2				1		1			1	1				
	.5	.5	1				.5		.5			.5	.5				
Total	9	16	24	0	1	6	10	5	3	1	4	13	5	3	20	5	25

Appendix P

Total and Percent of Total of Students Scoring Profile 312 in

Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
15	1		1			1							1		1		1
	.5		.5			.5							.5		.5		.5
Total	1	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	1

## Appendix Q

Total and Percent of Total of Students Scoring Profile 321 in  
Relation to Demographic Characteristics: By Age

Age	Sex		Color			Parent's Occupation						Region			Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
11	2		2				1	1									
	1		1				.5	.5					1	1	1	1	2
12	1		1					1									
	.5		.5					.5					1			1	1
Total	3	0	3	0	0	0	1	2	0	0	0	0	2	1	1	2	3

## Appendix R

## Total and Percent of Total of Students Scoring Profile 322 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8	6	3	9			3	1	2	3									
	3	1.5	4.5			1.5	.5	1	1.5			3	3	2	1	5	4	9
9	4	6	9															
	2	3	4.5		.5	1	2	3	3	2		1	3	2	4	6	4	10
10	8	5	12	1		4	4	3	1									
	4	2.5	6	.5		2	2	1.5	.5	.5	3	3	6	1	10	3	13	
11	7	6	13			3	4	2	4									
	3.5	3	6.5			1.5	2	1	2		3	3	4	3	10	3	13	
12	4	3	7				3	2	2									
	2	1.5	3.5				1.5	1	1		1.5	1	1	1	5	2	7	
13	5	6	11			7	3											
	2.5	3	5.5			3.5	1.5			.5	3	5	2	1	8	3	11	
14	9	4	13			4	4	1	2									
	4.5	2	6.5			2	2	.5	1	2	1	3	7	2	9	4	13	
15	9	5	14			3	3	3	5									
	4.5	2.5	7			1.5	1.5	1.5	2.5		6	3	4	1	12	2	14	
											3	1.5	2	.5	6	1	7	

Appendix R (Con't.)

Total and Percent of Total of Students Scoring Profile 322 in

Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region					Area		Total
	M	F	W	B	C	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
16	6	6	11	1		4	6	1	1		3	3	1	1	11	1	12	
	3	3	5.5	.5		2	3	.5	.5		1.5	1.5	.5	.5	5.5	.5	6	
Total	58	44	99	2	1	30	31	17	20	4	24	29	31	18	76	26	102	

## Appendix S

## Total and Percent of Total of Students Scoring Profile 323 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8		3 1.5	2 1	1 .5		1 .5	1 .5		1 .5			1 .5	1 .5	1 .5		2 1	1 .5	3 1.5
9	2 1	3 1.5	5 2.5			2 1	2 1		1 .5			3 1.5		1 .5	1 .5	5 2.5		5 2.5
10	3 1.5	3 1.5	6 3			1 .5	2 1	2 1	1 .5			1 .5	1 .5	2 1	2 1	4 2	2 1	6 3
11	3 1.5	3 1.5	6 3			4 2		1 .5	1 .5			3 1.5	1 .5	1 .5	1 .5	4 2	2 1	6 3
12	3 1.5	3 1.5	6 3			1 .5	3 1.5	2 1				2 1	1 .5	1 .5	2 1	6 3		6 3
13	1 .5	2 1	2 1	1 .5		2 1			1 .5			1 .5		2 1	3 1.5		3 1.5	
14	3 1.5	1 .5	4 2			1 .5	2 1		1 .5			1 .5		2 1	1 .5	2 1	2 1	4 2
15	6 3	3 1.5	9 4.5			3 1.5	3 1.5	2 1	1 .5			3 1.5	1 .5	5 2.5	9 4.5		9 4.5	

## Appendix S (Con't.)

## Total and Percent of Total of Students Scoring Profile 323 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	4	4	8			2	3	2	1		3	3	1	1	7	1	8
	2	2	4			1	1.5	1	.5		1.5	1.5	.5	.5	3.5	.5	4
Total	25	25	48	2	0	17	14	11	8	0	18	8	16	8	42	8	150



## Appendix T

## Total and Percent of Total of Students Scoring Profile 331 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region			Area		Total		
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U		R	
15	1		1						1			1					1	1
	.5		.5						.5			.5					.5	.5
Total	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	1	1

## Appendix U

## Total and Percent of Total of Students Scoring Profile 332 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region					Area	Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U		
8	4	2	6			2	3	1			1	2	2	1	6		6
	2	1	3			1	1.5	.5			.5	1	1	.5	3		3
9	7		7			1	4	2			2	4		1	5	2	7
	3.5		3.5			.5	2	1			1	2		.5	2.5	1	3.5
10	2	2	4			1		1	2		1	1	1	1	3	1	4
	1	1	2			.5		.5	1		.5	.5	.5	.5	1.5	.5	2
11	4		4				3	1				2	1	1	3	1	4
	2		2				1.5	.5				1	.5	.5	1.5	.5	2
12	3	3	5		1	3	1	1	1		1	2	1	2	5	1	6
	1.5	1.5	2.5		.5	1.5	.5	.5	.5		.5	1	.5	1	2.5	.5	2
13	4	2	6			3		2	1		1		3	2	5	1	6
	2	1	3			1.5		1	.5		.5		1.5	1	2.5	.5	3
14	3		3			1	1		1			2	1		1	2	3
	1.5		1.5			.5	.5		.5			1	.5		.5	1	1.5
15	3	2	5			3	1		1		1	2	2		3	2	5
	1.5	1	2.5			1.5	.5		.5		.5	1	1		1.5	1	2.5

Appendix U (Con't.)

Total and Percent of Total of Students Scoring Profile 332 in

Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation					Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
16	2	1	3			2	1				1		1	1	2	1	3
	1	.5	1.5			1	.5				.5		.5	.5	1	.5	1.5
<b>Total</b>	32	12	43	0	1	16	14	8	6	0	8	15	12	9	33	11	44

## Appendix V

## Total and Percent of Total of Students Scoring Profile 333 in

## Relation to Demographic Characteristics By Age

Age	Sex		Color			Parent's Occupation						Region				Area		Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
8		2	2				2					2						
		1	1				1					1			.5	.5	2	
9	3	1	4			1	3					1		2	3	1	4	
	1.5	.5	2			.5	1.5				.5		.5	1	1.5	.5	2	
10	4	2	6			1	2	2	1			2	3	1		3	6	
	2	1	3			.5	1	1	.5		1	1.5	.5		1.5	1.5	3	
11	1	2	2		1	1		1	1				1	2	2	1	3	
	.5	1	1		.5	.5		.5	.5			.5		1	1	.5	1.5	
12	4	2	6			2		3	1			3	1	2		5	6	
	2	1	3			1		1.5	.5		1.5	.5	1		2.5	.5	3	
13	4	1	5				3	2				1	2	1	3	2	5	
	2	.5	2.5				1.5	1			.5	1	.5	.5	1.5	1	2.5	
14	2	3	5			3	1	1				1	2		4	1	5	
	1	1.5	2.5			1.5	.5	.5			.5	1		1	2	.5	2.5	
15	1	2	3			1	1		1				3		2	1	3	
	.5	1	1.5			.5	.5		.5				1.5		1	.5	1.5	
Total	19	15	33	0	1	9	15	6	4	0	10	9	8	7	23	11	34	

## Appendix AA

Percent of Students Scoring Between and Within  
Demographic Characteristic Subcategories By Profile

PR	Sex		Color			Parent's Occupation						Region				Area		Percent of Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
111	46.9 3.3	53.1 3.8	46.9 2.0	50.0 12.9	3.1 10.0	3.1 0.7	9.4 1.2	7.8 1.2	51.6 6.3	28.1 15.1	10.9 1.8	17.2 2.1	60.9 6.8	10.9 2.2	65.6 3.3	34.4 4.2	3.6	
112	32.6 1.7	67.4 3.4	47.8 1.4	52.2 9.6		8.7 1.5	17.4 1.7	15.2 1.7	34.8 3.0	23.9 9.2	23.9 2.8	19.6 1.7	52.2 4.2	4.3 0.6	76.1 2.7	23.9 2.1	2.6	
121	77.8 3.1	22.2 0.9	77.8 1.8	19.4 2.8	2.8 5.0	2.8 0.4	19.4 1.4	27.8 2.5	30.6 2.1	19.4 5.9	8.3 0.8	30.6 2.1	38.9 2.5	22.2 2.6	38.9 1.1	61.1 4.2	2.0	
122	46.8 4.0	53.2 3.0	59.7 11.6	37.7 10.0	2.6 10.0	3.9 1.1	20.8 3.3	18.2 3.5	40.3 5.9	16.9 10.9	18.2 3.6	28.6 4.2	39.0 5.3	14.3 3.5	71.4 4.3	28.6 4.2	4.3	
123	33.3 0.1	66.7 0.2	33.3 0.1	33.3 0.4	33.3 5.0	33.3 0.4			33.3 0.2	33.3 0.8	33.3 0.3		33.3 0.2	33.3 0.3	100.0 0.2		0.2	
211	60.9 1.6	39.1 1.0	69.6 1.0	30.4 2.8		4.3 0.4	17.4 0.8	21.7 1.2	34.8 1.5	21.7 4.2	8.7 0.5	26.1 1.1	65.2 2.6		78.3 1.4	21.7 1.0	1.3	
212	28.1 2.8	71.9 7.1	65.2 3.8	34.8 12.4		9.0 3.0	28.1 5.2	28.1 6.2	30.3 5.1	4.5 3.4	23.6 5.4	28.1 4.8	36.0 5.6	12.4 3.5	73.0 5.1	27.0 4.6	4.9	
213	50.0 0.1	50.0 0.1	100.0 0.1				50.0 0.2			50.0 0.8		50.0 0.2		50.0 0.3	50.0 0.1	50.0 0.2	0.1	

## Appendix AA (Con't.)

## Percent of Students Scoring Between and Within

## Demographic Characteristic Subcategories By Profile

PR	Sex		Color			Parent's Occupation						Region				Area	Percent of Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U		
221	74.7 6.6	25.3 2.2	84.8 4.4	13.9 4.4	1.3 5.0	3.8 1.1	25.3 4.1	34.2 6.7	34.2 5.1	2.5 1.7	16.5 3.3	31.6 4.8	31.6 4.4	20.3 5.1	62.0 3.8	38.0 5.7	4.4
222	48.1 49.3	51.9 53.2	89.3 53.8	10.1 37.3	0.7 30.0	13.3 46.1	27.3 52.1	23.9 54.6	30.2 53.1	5.2 40.3	20.8 49.1	30.7 53.8	28.9 41.8	19.6 57.8	69.9 50.6	30.1 52.9	51.3
223	42.6 4.8	57.4 6.4	91.1 6.0	6.9 2.8	2.0 19.0	19.8 7.5	28.7 6.0	24.8 6.2	24.8 4.8	2.0 1.7	40.6 10.5	24.8 4.8	24.8 4.4	9.9 3.2	77.2 6.1	22.8 4.4	5.6
231	100.0 0.7		83.3 0.3	16.7 0.4		16.7 0.4	16.7 0.2	33.3 0.5	33.3 0.4		16.7 0.3	16.7 0.2	33.3 0.4	33.3 0.6	50.0 0.2	50.0 0.6	0.3
232	54.9 5.6	45.1 4.6	96.7 5.7	2.2 0.8	1.1 5.0	23.1 7.9	53.0 6.2	16.5 3.7	25.3 4.4	2.2 1.7	23.1 5.4	35.2 6.1	23.1 3.7	18.7 5.4	76.9 5.5	23.1 4.0	5.1
233	36.0 1.0	64.0 1.8	96.0 1.6		4.0 5.0	24.0 2.2	40.0 2.1	20.0 1.2	12.0 0.6	4.0 0.8	16.0 1.0	52.0 2.5	20.0 0.9	12.0 1.0	80.0 1.6	20.0 1.0	1.4
312	100.0 0.1		100.0 0.1			100.0 0.4						100.0 0.2		100.0 0.1			0.1
321	100.0 0.3		100.0 0.2				33.3 0.2	66.7 0.5					66.7 0.4	33.3 0.3	33.3 0.1	66.7 0.4	0.2

## Appendix AA (Con't.)

## Percent of Students Scoring Between and Within

## Demographic Characteristic Subcategories By Profile

PR	Sex		Color			Parent's Occupation					Region				Area		Percent of Total
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
322	56.9 6.4	43.1 4.9	97.1 6.5	2.0 0.8	1.0 5.0	29.4 11.2	30.4 6.4	16.7 4.2	19.6 3.8	3.9 3.4	23.5 6.1	28.4 5.5	30.4 5.4	17.6 5.8	74.5 6.0	25.5 4.9	5.7
323	50.0 2.8	50.0 2.8	96.0 3.1	4.0 0.8		34.0 6.4	28.0 2.9	22.0 2.7	16.0 1.5		36.0 4.6	16.0 1.5	32.0 2.8	16.0 2.6	84.0 3.3	16.0 1.5	2.8
231	100.0 0.1		100.0 0.1						100.0 0.2			100.0 0.2				100.0 0.2	0.1
332	72.7 3.6	27.3 1.3	97.7 2.8		2.3 5.0	36.4 6.0	31.8 2.9	18.2 2.0	13.6 1.1		18.2 2.0	34.1 2.9	27.3 2.1	20.5 2.9	75.0 2.6	25.0 2.1	2.4
333	55.9 2.1	44.1 1.7	97.1 2.2		2.9 5.0	26.5 3.4	44.1 3.1	17.6 1.5	11.8 0.8		29.4 2.6	26.5 1.7	23.5 1.4	20.6 2.2	67.6 1.8	32.4 2.1	1.9
Percent of Total	50.0	50.0	85.1	13.8	1.1	14.8	26.9	22.5	29.2	6.6	21.7	29.2	31.7	17.4	70.8	29.2	

## Appendix BB

Percent of Students Scoring Profile 111 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation						Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	75.0	25.0	50.0	50.0		25.0			75.0				25.0	50.0	25.0	75.0	25.0
	3.0	2.0	1.2	7.1		3.2			5.2				1.8	3.1	3.0	2.2	1.5
9	36.4	63.6	27.3	72.7			18.2		45.5	36.4			27.3	72.7		72.7	27.3
	4.0	7.0	1.8	27.6			3.8		8.5	33.3			4.9	12.1		5.5	5.6
10	33.3	66.7	55.6	44.4		11.1	11.1	11.1	44.4	22.2	22.1	11.1	55.6	11.1	66.7	33.3	
	3.0	6.0	2.9	13.3		3.6	1.9	2.3	6.5	16.7	4.5	1.6	7.9	3.2	4.4	4.7	
11	37.5	62.5	50.0	50.0					50.0	37.5			75.0			37.5	
	3.0	5.0	2.3	14.8					2.1	6.9	21.4		3.4	9.4		3.4	5.8
12	40.0	60.0	40.0	40.0	20.0				60.0	40.0	40.0		60.0			20.0	80.0
	2.0	3.0	1.2	8.0	16.7				5.4	14.3	4.5		4.6			0.7	6.8
13	57.1	42.9	71.4	25.6			14.3	14.3	42.9	28.6	14.3	28.6	28.6	28.6	71.4	28.6	
	4.0	3.0	2.9	7.4			1.9	2.2	5.1	14.3	2.3	3.4	3.3	5.1	2.1	3.5	
14	60.0	40.0	40.0	40.0	20.0		20.0		20.0	60.0	20.0		40.0	40.0	60.0	40.0	
	3.0	2.0	1.2	6.7	50.0		1.8		1.8	23.1	2.4		3.1	5.3	2.1	3.5	
15	75.0	25.0	50.0	50.0		25.0	25.0	25.0	25.0			25.0	75.0				
	3.0	1.0	1.2	7.7		1.9	2.2	11.8	7.8			1.7	4.8			2.8	
16	45.5	54.5	45.5	54.5					9.1	81.8	9.1	9.1	9.1	72.7	9.1	62.6	36.4
	5.0	6.0	2.9	22.2					2.3	14.8	8.3	2.2	1.8	12.9	2.8	5.0	6.7



## Appendix CC

Percent of Students Scoring Profile 112 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color				Parent's Occupation						Region			Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	33.3 2.0	66.7 4.0	33.3 1.2	66.7 14.4		16.7 3.2	16.7 1.9	33.3 4.5		33.3 14.3		16.7 1.8	83.3 7.8		50.0 2.2	50.0 4.5	
9	50.0 2.0	50.0 2.0	50.0 1.2	50.0 6.9		25.0 3.4	25.0 1.9		50.0 3.4			50.0 3.3	25.0 1.5	25.0 3.0	100.0 2.7		
10	25.0 1.0	75.0 3.0	75.0 1.8	25.0 3.3			50.0 3.7		25.0 1.6	25.0 8.3	25.0 2.3	50.0 3.2	25.0 1.6		75.0 2.2	25.0 1.6	
11	14.3 1.0	85.7 6.0	42.9 1.7	57.1 14.8				28.6 4.3	57.1 6.9	14.3 7.1	14.3 2.3		85.7 9.4		85.7 2.7	14.3 1.7	
12	50.0 3.0	50.0 3.0	33.3 1.2	66.7 16.0		16.7 3.4	33.3 3.6		50.0 5.4		50.0 6.8		50.0 4.6		83.3 3.5	16.7 1.7	
13	80.0 4.0	20.0 1.0	60.0 1.8	40.0 7.4			20.0 1.9	20.0 2.2	40.0 3.4	20.0 7.1	20.0 2.3	20.0 1.7	40.0 3.3	20.0 2.6	40.0 1.4	60.0 5.1	
14	14.3 1.0	85.7 6.0	42.9 1.8	57.1 13.3		14.3 3.1		14.3 2.3	42.9 5.4	28.6 15.4	14.3 2.4	14.3 1.8	71.4 7.8		71.4 3.5	28.6 3.5	
15		100.0 4.0	75.0 1.7	25.0 3.8			25.0 1.9		25.0 1.8	50.0 14.3	75.0 6.8	25.0 1.7			100.0 2.8		
16	33.3 1.0	66.7 2.0	33.3 0.6	66.7 7.4				33.3 2.3		66.7 16.7	33.3 2.2	33.3 1.8	33.3 1.6		100.0 2.1		

## Appendix DD

Percent of Students Scoring Profile 121 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex			Color			Parent's Occupation						Region			Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	80.0 4.1	20.0 1.0	100.0 2.9			20.0 3.2	40.0 3.8	20.0 2.3	20.0 1.7			60.0 5.3		40.0 6.1	20.0 0.7	80.0 6.1	
9	100.0 3.0		100.0 1.8				33.3 1.9	33.3 2.1		33.3 8.3		33.3 1.6	66.7 3.0		66.7 1.4	33.3 1.9	
10	50.0 2.0	50.0 2.0	100.0 2.4					25.0 2.3	50.0 3.2	25.0 8.3			50.0 3.2	50.0 6.5	25.0 0.7	75.0 4.7	
11	66.7 2.0	33.3 1.0	66.7 1.2	33.3 3.7				33.3 2.1	66.7 3.4				33.3 1.7	66.7 3.1	33.3 0.7	66.7 3.8	
12	50.0 1.0	50.0 1.0	100.0 1.2				50.0 1.8		50.0 1.8				100.0 3.1			100.0 3.4	
13	80.0 4.0	20.0 1.0	60.0 1.8	40.0 7.4			20.0 1.9	40.0 4.4	20.0 1.7	20.0 7.1	20.0 2.3	40.0 3.4	40.0 3.3		60.0 2.1	40.0 3.4	
14	66.7 4.0	33.3 2.0	66.7 2.4	33.3 6.7			16.7 1.8		50.0 5.4	33.3 15.4	16.7 2.4	33.3 3.5	33.3 3.1	16.7 2.6	50.0 2.1	50.0 5.3	
15	100.0 3.0		66.7 1.2	33.3 3.8				66.7 4.4		33.3 7.1		33.3 1.7	33.3 1.6	33.3 2.9	66.7 1.4	33.3 1.8	
16	100.0 5.0		60.0 1.8	20.0 3.7	20.0 50.0		20.0 1.9	40.0 4.5	20.0 1.6	20.0 8.3	20.0 2.2	20.0 1.8	20.0 1.6	40.0 5.6	20.0 6.7	80.0 6.7	

## Appendix EE

Percent of Students Scoring Profile 122 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation						Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	22.2	77.8	88.9	11.1		22.2		44.4	22.2	11.1	22.2	33.3	33.3	11.1	77.8	22.2	
	3.0	7.0	4.7	3.6		6.5		9.1	3.4	7.1	4.3	5.3	4.7	3.0	5.2	3.0	
9	50.0	50.0	100.0				25.0		50.0	50.0	25.0	37.5	12.5	25.0	62.5	37.5	
	4.0	4.0	4.7				3.8		6.8	16.7	5.0	4.9	1.5	6.1	3.4	5.6	
10	28.6	71.4	42.9	57.1			28.6	14.3	42.9	14.3	14.3	14.3	71.4		71.4	28.6	
	2.0	5.0	1.8	13.3			3.7	2.3	4.8	8.3	2.3	1.6	7.9		3.7	3.1	
11	62.5	37.5	75.0	25.0			37.5	25.0	37.5		25.0	37.5	37.5		75.0	28.6	
	5.0	3.0	3.5	7.4			5.6	4.3	5.2		4.5	5.2	4.7		4.1	3.8	
12	35.7	64.3	42.9	50.0	7.1		35.7		28.6	35.7	14.3	21.4	50.0	14.3	64.3	35.7	
	5.0	9.0	3.6	28.0	16.7		8.9		7.1	35.7	4.5	5.3	10.8	5.9	6.4	8.5	
13	20.0	80.0	20.0	80.0		20.0		40.0	40.0			40.0	40.0	20.0	60.0	40.0	
	1.0	4.0	0.6	14.8		3.6		4.4	3.4			3.4	3.3	2.6	2.1	3.4	
14	83.3	16.7	66.7	33.3			16.7	16.7	50.0	16.7	33.3	50.0	16.7		100.0		
	5.0	1.0	2.4	6.7			1.8	2.3	5.4	7.7	4.9	5.3	1.6		4.2		
15	58.3	41.7	50.0	50.0			8.3	25.0	50.0	16.7	16.7	33.3	41.7	8.3	75.0	25.0	
	7.0	5.0	3.5	23.1			1.9	6.7	10.7	14.3	4.5	6.8	8.1	2.9	6.2	5.5	
16	62.5	37.5	50.0	37.5	12.5		25.0	12.5	50.0	12.5	12.5		37.5	50.0	62.5	37.5	
	5.0	3.0	2.3	11.1	50.0		3.8	2.3	6.6	8.3	2.2		4.8	11.1	3.6	5.0	

## Appendix FF

Percents of Students Scoring Profile 123 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation						Region			Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8	50.0	50.0	50.0		50.0				50.0	50.0	50.0			50.0	100.0	
	1.0	1.0	0.6		50.0				1.7	7.1	2.2			3.0	1.5	
16		100.0		100.0		100.0							100.0		100.0	
		1.0		3.7		3.3							1.6		0.7	

## Appendix GG

Percents of Students Scoring Profile 211 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation						Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	33.3	66.7	33.3	66.7			33.3			66.7			100.0		100.0		
	1.0	2.0	0.6	7.1			1.9			14.3			4.7		2.2		
9	50.0	50.0		100.0		50.0		50.0					100.0		100.0		
	1.0	1.0		6.9		3.4		2.1					3.0		1.4		
10	50.0	50.0	100.0				25.0	25.0	50.0		50.0	50.0			75.0	25.0	
	2.0	2.0	2.4				1.9	2.3	3.2		4.5	3.2			2.2	1.6	
11		100.0	100.0							100.0			100.0			100.0	
		1.0	0.6							7.1			1.7			1.9	
12	100.0		100.0						100.0				100.0		100.0		
	2.0		1.2						3.6				3.1		1.4		
13	100.0			100.0				100.0					100.0		100.0		
	1.0			3.7				2.2					1.7		0.7		
14	100.0		100.0						100.0				100.0			100.0	
	1.0		0.6						1.8				1.6			1.8	
15	60.0	40.0	80.0	20.0			40.0		20.0	40.0			100.0		80.0	20.0	
	3.0	2.0	2.3	3.8			3.8		1.8	14.3			8.1		2.8	1.8	
16	75.0	25.0	75.0	25.0				50.0	50.0				50.0	50.0	75.0	25.0	
	3.0	1.0	1.8	3.7				4.5	3.3				3.5	3.2	2.1	1.7	

## Appendix HH

Percents of Students Scoring Profile 212 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation					Region			Area		
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8	61.5	38.5	76.9	23.1		7.7	46.2	23.1	15.4	7.7	30.8	38.5	30.8		61.5	38.5
	8.0	5.0	5.9	10.7		3.2	11.3	6.8	3.4	7.1	8.7	8.8	6.3		6.0	7.6
9	10.0	90.0	70.0	30.0			20.0	30.0	50.0		10.0	30.0	50.0	10.0	80.0	20.0
	1.0	9.0	4.1	10.3			3.8	6.4	8.5		2.5	4.9	7.6	3.0	5.5	3.7
10	25.0	75.0	50.0	50.0		16.7	16.7	25.0	41.7		16.7	8.3	58.3	16.7	58.3	41.7
	3.0	9.0	3.5	20.0		7.1	3.7	6.8	8.1		4.5	1.6	11.1	6.5	5.1	7.8
11	37.5	62.5	37.5	62.5			37.5	25.0	37.5		25.0	25.0	37.5	12.5	100.0	
	3.0	5.0	1.7	18.5			5.6	4.3	5.2		4.5	3.4	4.7	2.9	5.4	
12	40.0	60.0	40.0	60.0			20.0	40.0	20.0	20.0	20.0	20.0	40.0	20.0	60.0	40.0
	2.0	3.0	1.2	12.0			1.8	4.4	1.8	7.1	2.3	1.8	3.1	2.9	2.1	3.4
13	11.1	88.9	88.9	11.1		11.1	22.2	44.4	22.2		33.3	33.3		33.3	88.9	11.1
	1.0	8.0	4.7	3.7		1.6	3.7	8.9	3.4		7.0	5.2		7.7	5.7	1.7
14	40.0	60.0	70.0	30.0		10.0	30.0	20.0	30.0	10.0	30.0	40.0	10.0	20.0	80.0	20.0
	4.0	6.0	4.2	10.0		3.1	5.5	4.5	5.4	7.7	7.3	7.0	1.6	5.3	5.6	3.5
15	6.7	93.3	60.0	40.0		20.0	33.3	26.7	13.3	6.7	13.3	20.0	60.0	6.7	66.7	33.3
	1.0	14.0	5.2	23.1		9.1	9.6	8.9	3.6	7.1	4.5	5.1	14.5	2.9	6.9	9.1
16	28.6	71.4	85.7	14.3			14.3	28.6	57.1		42.9	42.9	14.3		71.4	28.6
	2.0	5.0	3.5	3.7			1.9	4.5	6.6		6.7	5.3	1.6		3.6	3.3

Appendix II

Percents of Students Scoring Profile 213 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex			Color			Parent's Occupation						Region				Area		
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R			
16	50.0	50.0	100.0				50.0			50.0		50.0		50.0	50.0	50.0			
	1.0	1.0	1.2				1.9		8.3		1.8		2.8	0.7	1.7				

## Appendix JJ

Percents of Students Scoring Profile 221 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8	69.2	30.8	84.6	15.4			38.5	23.1	38.5		23.1	46.2	15.4	15.4	53.8	46.2
	9.0	4.0	6.5	7.1			9.4	6.8	8.6		6.5	10.5	3.1	6.1	5.2	9.1
9	100.0		100.0					75.0	25.0		25.0		25.0	50.0	50.0	50.0
	4.0		2.4					6.4	1.7		2.5		1.5	6.1	1.4	3.7
10	66.7	33.3	88.9	11.1		11.1	33.3	22.2	33.3		22.2	55.6	22.2		33.3	66.7
	6.0	3.0	4.7	3.3		7.6	5.6	4.5	4.8		4.5	8.1	3.2		2.2	9.4
11	71.4	28.6	85.7	14.3			28.6	42.9	28.6		14.3		42.9	42.9	71.4	28.6
	5.0	2.0	3.5	3.7			3.7	6.4	3.4		2.3		4.7	8.8	3.4	3.8
12	87.5	12.5	50.0	37.5	12.5		37.5	50.0	12.5			12.5	37.5	50.0	87.5	12.5
	7.0	1.0	2.4	12.0	16.7		5.4	7.1	7.1			1.8	4.6	11.8	5.0	1.7
13	81.8	18.2	81.8	18.2		9.1		18.2	63.6	9.1	9.1	27.3	54.5	9.1	72.7	27.3
	9.0	2.0	5.3	7.4		3.6		4.4	11.9	7.1	2.3	5.2	10.0	2.6	5.7	5.1
14	90.0	10.0	80.0	20.0		10.0	30.0	50.0	10.0		30.0	30.0	30.0	10.0	70.0	30.0
	9.0	1.0	4.8	6.7		3.1	5.5	11.4	1.8		7.3	5.3	4.7	2.6	4.9	5.3
15	75.0	25.0	100.0				25.0	37.5	37.5			50.0	37.5	12.5	50.0	50.0
	6.0	2.0	4.7				3.8	6.7	5.4			6.8	4.8	2.9	2.8	7.3
16	44.4	55.6	100.0				22.2	66.7	11.1		22.2	33.3	22.2	22.2	66.7	33.3
	4.0	5.0	5.3				3.8	13.6	1.6		4.4	5.3	3.2	5.6	4.3	5.0



## Appendix KK

 Percents of Students Scoring Profile 222 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation						Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	46.9	53.1	87.8	12.2		11.2	22.4	25.5	33.7	7.1	16.3	25.5	35.7	22.4	63.3	36.7	
	46.0	52.0	50.6	42.9		35.5	41.5	56.8	56.9	50.0	34.8	43.9	54.7	66.7	46.3	54.5	
9	49.5	50.5	86.5	12.6	0.9	14.4	28.8	23.4	29.7	3.6	18.9	30.6	35.1	15.3	71.2	28.8	
	55.5	56.0	56.8	48.3	50.0	55.2	60.4	55.3	55.9	33.3	52.5	55.7	59.1	51.5	54.1	59.3	
10	53.6	46.4	87.6	12.4		8.2	29.9	20.6	35.1	6.2	20.6	36.1	23.7	19.6	72.2	27.8	
	52.0	45.0	50.0	40.0		28.6	53.7	45.5	54.8	50.0	45.5	56.5	36.5	61.3	51.5	42.2	
11	49.5	50.5	90.8	9.2		13.8	27.5	22.0	28.4	8.3	20.2	32.0	27.5	19.3	73.4	26.6	
	54.0	55.0	57.6	37.0		55.6	55.6	51.1	53.4	64.3	50.0	62.1	46.2	61.8	54.1	55.8	
12	48.6	51.4	94.5	4.6	0.9	17.4	23.9	29.4	26.6	2.8	18.3	37.6	27.5	16.5	69.7	30.3	
	53.0	56.0	60.9	20.0	16.7	65.5	46.4	71.1	51.8	21.4	45.5	71.9	46.2	52.9	33.9	55.9	
13	50.5	49.5	88.6	10.5	1.0	9.5	30.5	22.9	29.5	7.6	22.9	28.6	28.6	20.0	68.6	31.4	
	53.0	52.0	54.7	40.7	33.3	35.7	59.3	53.3	52.5	57.1	55.8	51.7	50.0	53.8	51.1	55.9	
14	42.5	57.5	85.8	13.2	0.9	14.2	30.2	26.4	27.4	1.9	22.6	28.3	30.2	18.9	75.5	24.5	
	45.0	61.0	54.2	46.7	50.0	46.9	58.2	63.6	51.8	15.4	58.5	52.6	50.0	52.6	55.9	45.6	
15	43.0	57.0	89.2	8.6	2.2	15.1	26.9	21.5	31.2	5.4	27.7	28.0	20.4	28.0	67.7	32.3	
	40.0	53.0	48.3	30.8	100.0	42.4	48.1	44.4	51.8	35.7	50.0	44.1	30.6	74.3	43.4	54.5	
16	48.4	51.6	92.6	7.4		15.8	25.3	23.2	31.6	4.2	24.2	27.4	30.5	17.9	66.3	33.7	
	46.0	49.0	51.5	25.9		50.0	45.3	50.0	49.2	33.3	51.1	45.6	46.8	47.2	45.0	53.3	

## Appendix LL

Percents of Students Scoring Profile 223 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8	25.0	75.0	100.0			41.7	25.0	25.0	8.3		50.0	25.0	25.0		91.7	8.3
	3.0	9.0	7.1			16.1	5.7	6.8	1.7		13.0	5.3	4.7		8.2	1.5
9	36.4	63.6	100.0			27.3	9.1	18.2	36.4	9.1	63.6	27.3		9.1	81.8	18.2
	4.0	7.0	6.5			10.3	1.9	4.3	6.8	8.3	17.5	4.9		3.0	6.2	3.7
10	30.8	69.2	92.3	7.7		30.8	30.8	23.1	15.4		30.8	15.4	53.8		69.2	30.8
	4.0	9.0	7.1	3.3		14.3	7.4	6.8	3.2		9.1	3.2	11.1		6.6	6.3
11	60.0	40.0	100.0			10.0	40.0	30.0	20.0		70.0	10.0	20.0		90.0	10.0
	6.0	4.0	5.8			3.7	7.4	6.4	3.4		15.9	1.7	3.1		6.1	1.9
12	42.9	57.1	85.7	7.1	7.1	7.1	35.7	28.6	21.4	7.1	42.9	21.4	14.3	21.4	78.6	21.4
	6.0	8.0	7.1	4.0	14.7	3.4	8.9	8.9	5.4	7.1	13.6	5.3	3.1	8.8	7.8	5.1
13	36.4	63.4	81.8	9.1	9.1		36.4	27.3	36.4		27.3	18.2	27.3	27.3	72.7	27.2
	4.0	7.0	5.3	3.7	33.3		7.4	6.7	6.8		7.0	3.4	5.0	7.7	5.7	5.1
14	40.0	60.0	100.0			10.0	30.0	20.0	40.0		20.0	20.0	40.0	20.0	50.0	50.0
	4.0	6.0	6.0			3.1	5.5	4.5	7.1		4.9	3.5	6.3	5.3	3.5	8.8
15	66.7	33.3	88.9	11.1		11.1	22.2	44.4	22.2		33.3	55.6		11.1	88.9	11.1
	6.0	3.0	4.7	3.8		3.0	3.8	8.9	3.6		6.8	8.5		2.9	5.5	1.8
16	54.5	45.5	72.7	27.3		36.4	27.3	9.1	27.3		27.3	36.4	36.4		72.7	27.3
	6.0	5.0	4.7	11.1		13.3	5.7	2.3	4.9		6.7	7.0	6.5		5.7	5.0

## Appendix MM

Percents of Students Scoring Profile 231 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
9	100.0		100.0					100.0					100.0			100.0
	1.0		0.6					2.1					1.5			1.9
10	100.0		100.0			50.0		50.0				50.0	50.0		50.0	50.0
	2.0		1.2			2.6		2.3				1.6	3.2		0.7	1.6
13	100.0		100.0						100.0				100.0		100.0	
	1.0		0.6						1.7				1.7		0.7	
14	100.0			100.0					100.0					100.0		100.0
	1.0			3.3					1.8					2.6		1.8
16	100.0		100.0				100.0				100.0				100.0	
	1.0		0.6				1.9				2.2				0.7	

## Appendix NN

Percents of Students Scoring Profile 232 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex			Color		Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8	81.8	18.2	90.9	9.1		18.2	36.4		45.5		45.5	27.3	18.2	9.1	81.8	18.2
	9.0	2.0	5.9	3.6		6.5	7.5		8.6		10.9	5.3	3.1	3.0	6.7	3.0
9	57.1	42.9	100.0			28.6		42.9	28.6		14.3	42.9	28.6	14.3	85.7	14.3
	4.0	3.0	4.1			6.9		6.4	3.4		2.5	4.9	3.0	3.0	4.1	1.9
10	50.0	50.0	100.0			50.0		50.0			50.0	33.3	16.7		56.7	33.3
	3.0	3.0	3.5			10.7		6.8			6.8	3.2	1.6		2.9	3.1
11	50.0	50.0	100.0			25.0	37.5	25.0	12.5		37.5	25.0	25.0	12.5	75.0	25.0
	4.0	4.0	4.7			7.4	5.6	4.3	1.7		6.8	3.4	3.1	2.9	4.1	3.8
12	42.9	57.1	100.0			28.6	28.6	14.3	28.6		14.3	14.3	57.1	14.3	71.4	28.6
	3.0	4.0	4.1			6.9	3.6	2.2	3.6		2.3	1.8	6.2	2.9	3.5	3.4
13	36.4	63.6	90.1		9.9	18.2	45.5		36.4		18.2	27.3	27.3	27.3	72.7	27.3
	4.0	7.0	5.9		33.3	7.1	9.3		6.8		4.7	5.2	5.0	7.7	5.7	3.1
14	50.0	50.0	100.0			30.0	40.0		30.0		10.0	40.0	10.0	40.0	80.0	20.0
	5.0	5.0	6.0			9.4	7.3		5.4		2.4	7.0	1.6	10.5	5.6	3.5
15	76.9	23.1	100.0			23.1	38.5	23.1	15.4		15.4	46.2	15.4	23.1	69.2	30.8
	10.0	3.0	7.6			9.1	9.6	6.7	3.6		4.5	10.2	3.2	8.6	6.2	7.3
16	44.4	55.6	94.4	5.6		11.1	38.9	16.7	22.2	11.1	16.7	44.4	22.2	16.7	83.3	16.7
	8.0	10.0	9.9	3.7		6.7	13.2	6.8	6.6	16.7	6.7	14.0	6.5	8.3	10.7	5.0

## Appendix 00

Percents of Students Scoring Profile 233 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex			Color			Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	50.0 2.0	50.0 2.0	75.0 1.8		25.0 50.0	25.0 3.2	50.0 3.8		25.0 1.7		50.0 4.3	25.0 1.8		25.0 3.0	100.0 3.0		
9	50.0 1.0	50.0 1.0	100.0 1.2					100.0 4.3				100.0 3.3			100.0 1.4		
10	75.0 3.0	25.0 1.0	100.0 2.4			25.0 3.6	50.0 3.7		25.0 1.6			50.0 3.2		50.0 6.5	100.0 2.9		
11		100.0 3.0	100.0 1.7			33.3 3.7	33.3 1.9	33.3 2.1				100.0 5.2			66.7 1.4	33.3 1.9	
12	50.0 1.0	50.0 1.0	100.0 1.2				50.0 1.8			50.0 7.3		50.0 50.0	50.0 50.0		50.0 0.7	50.0 1.7	
13		100.0 4.0	100.0 2.4			25.0 3.6	50.0 3.7	25.0 2.2			25.0 2.3	50.0 3.4	75.0 1.7		75.0 2.1	25.0 1.7	
14	33.3 1.0	66.7 2.0	100.0 1.8			33.3 3.1	33.3 1.9	33.3 2.3				33.3 1.8	66.7 3.1		66.7 1.4	33.3 1.8	
15		100.0 1.0	100.0 0.6			100.0 3.0						100.0 1.7			100.0 0.7		
16	50.0 1.0	50.0 1.0	100.0 1.2				50.0 1.9		50.0 1.6		50.0 2.2		50.0 1.6		50.0 0.7	50.0 1.7	

Appendix PP

Percents of Students Scoring Profile 312 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation					Region			Area		
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
15	100.0		100.0			100.0							100.0		100.0	
	1.0		0.6			3.0							1.6		0.7	

Appendix QQ

Percents of Students Scoring Profile 321 Between and  
Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation							Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R		
11	100.0		100.0				50.0	50.0										
	2.0		1.2				1.9	2.1					50.0	50.0	50.0	50.0		
12	100.0		100.0															
	1.0		0.6					100.0					100.0				100.0	
								2.2					1.5				1.7	

## Appendix RR

Percents of Students Scoring Profile 322 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex			Color		Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8	66.7	33.3	100.0			33.3	11.1	22.2	33.3		33.3	33.3	22.2	11.1	55.6	44.4
	6.0	3.0	5.3			9.7	1.9	4.5	5.2		6.5	3.3	3.1	3.0	3.7	6.1
9	40.0	60.0	90.0		10.0	20.0	30.0	30.0	20.0		10.0	30.0	20.0	40.0	60.0	40.0
	4.0	6.0	5.3		50.0	6.9	5.7	6.4	3.4		2.5	4.9	3.0	12.1	4.1	7.4
10	61.5	28.5	92.3	7.7		30.8	30.8	23.1	7.7	7.7	23.1	23.1	30.8	23.1	76.9	23.1
	8.0	5.0	7.1	3.3		14.3	7.4	6.8	1.6	8.3	6.8	4.8	9.5	3.2	7.4	4.7
11	53.8	46.2	100.0			23.1	30.8	15.4	30.8		23.1	23.1	30.8	23.1	76.9	23.1
	7.0	6.0	7.6			11.1	7.4	4.3	6.9		6.8	5.2	6.3	8.8	6.8	5.8
12	57.1	42.9	100.0				42.9	28.6	28.6		42.9	28.6	14.3	14.3	71.4	28.6
	4.0	3.0	4.1				5.4	4.4	3.6		6.8	3.5	1.5	2.9	3.5	3.4
13	45.5	54.5	100.0			63.6	27.3			9.1	27.3	45.5	18.2	9.1	72.7	27.3
	5.0	6.0	6.5			25.0	5.6			7.1	7.0	8.6	3.3	2.6	5.7	5.1
14	69.2	30.8	100.0			30.8	30.8	7.7	15.4	15.4	7.7	23.1	53.8	15.4	69.2	30.8
	9.0	4.0	7.7			12.5	7.3	2.3	3.6	15.4	2.4	5.3	10.9	5.3	6.3	7.0
15	64.3	35.7	100.0			21.4	21.4	21.4	35.7		42.9	21.4	28.6	7.1	85.7	14.3
	9.0	5.0	8.1			9.1	5.8	6.7	8.9		13.6	5.1	6.5	2.9	8.3	3.6
16	50.0	50.0	91.7	8.3		33.3	50.0	8.3	8.3		8.3	33.3	25.0	33.3	91.7	8.3
	6.0	6.0	6.4	3.7		13.3	11.3	2.3	1.6		2.2	7.0	4.8	11.1	7.9	1.7



## Appendix SS

Percents of Students Scoring Profile 323 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8		10.0	66.7	33.3		33.3	33.3		33.3		33.3	33.3	33.3		66.7	33.3
		3.0	1.2	3.6		3.2	1.9		1.7		2.2	1.8	1.6		1.5	1.5
9	40.0	60.0	100.0			40.0	40.0		20.0		60.0		20.0	20.0	100.0	
	2.0	3.0	3.0			6.9	3.8		1.7		7.5		1.5	3.0	3.4	
10	50.0	50.0	100.0			16.7	33.3	33.3	16.7		16.7	16.7	33.3	33.3	66.7	33.3
	3.0	3.0	3.5			3.6	3.7	4.5	1.6		2.3	1.6	3.2	6.5	2.9	3.1
11	50.0	50.0	100.0			66.7		16.7	16.7		50.0	16.7	16.7	16.7	66.7	33.3
	3.0	3.0	3.5			14.8		2.1	1.7		6.8	1.7	1.6	2.9	2.7	3.8
12	50.0	50.0	100.0			16.7	50.0	33.3			33.3	16.7	16.7	33.3	100.0	
	3.0	3.0	3.6			3.4	5.4	4.4			4.5	1.8	1.5	5.9	4.5	
13	33.3	66.7	66.7	33.3		66.7			33.3		33.3		66.7		100.0	
	1.0	2.0	1.2	3.7		7.1			1.7		2.3		3.3		2.1	
14	75.0	25.0	100.0			25.0		50.0	25.0		25.0		50.0	25.0	50.0	50.0
	3.0	1.0	2.4			3.1		4.5	1.8		2.4		3.1	2.6	1.4	3.5
15	66.7	33.3	100.0			33.3	33.3	22.2	11.1		33.3	11.1	55.6		100.0	
	6.0	3.0	5.2			9.1	5.8	4.4	1.8		6.8	1.7	8.1		6.2	
16	50.0	50.0	100.0			25.0	37.5	25.0	12.5		37.5	37.5	12.5	12.5	87.5	12.5
	4.0	4.0	4.7			6.2	5.7	4.5	1.6		6.7	5.3	1.6	2.8	5.0	1.7

## Appendix TT

Percents of Students Scoring Profile 331 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex		Color			Parent's Occupation						Region			Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
15	100.0		100.0					100.0								
	1.0		0.6					1.8								
												100.0				
												1.7				
																100.0
																1.8

## Appendix UU

Percents of Students Scoring Profile 332 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex			Color		Parent's Occupation					Region					Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R	
8	66.7	33.3	100.0			33.3	50.0	16.7			16.7	33.3	33.3	16.7	100.0		
	4.0	2.0	3.5			6.5	5.7	2.3			2.2	3.5	3.1	3.0	4.5		
9	100.0		100.0			14.3	57.1	28.6			28.6	57.1		14.3	71.4	28.6	
	7.0		4.1			3.4	7.5	4.3			5.0	6.6		3.0	3.4	3.7	
10	50.0	50.0	100.0			25.0		25.0	50.0		25.0	25.0	25.0	25.0	75.0	25.0	
	2.0	2.0	2.4			3.6		2.3	3.2		2.3	1.6	1.6	3.2	2.2	1.6	
11	100.0		100.0				75.0	25.0				50.0	25.0	25.0	75.0	25.0	
	4.0		2.3				5.6	2.1				3.4	1.6	2.9	2.0	1.9	
12	50.0	50.0	83.3		16.7	50.0	16.7	16.7	16.7		16.7	33.3	16.7	33.3	83.3	16.7	
	3.0	3.0	3.0		16.7	10.3	1.8	2.2	1.8		2.3	3.5	1.5	5.9	3.5	1.7	
13	66.7	33.3	100.0			50.0		33.3	16.7		16.7		50.0	33.3	83.3	16.7	
	4.0	2.0	3.5			10.7		4.4	1.7		2.3		5.0	5.1	3.5	1.7	
14	100.0		100.0			33.3	33.3		33.3			66.7	33.3		33.3	33.3	
	3.0		1.8			3.1	1.8		1.8			3.5	1.6		0.7	3.5	
15	60.0	40.0	100.0			60.0	20.0		20.0		20.0	40.0	40.0		60.0	40.0	
	3.0	2.0	2.9			9.1	1.9		1.8		2.3	3.4	3.2		2.1	3.6	
16	66.7	33.3	100.0			66.7	33.3				33.3		33.3	33.3	16.7	33.3	
	2.0	1.0	1.8			6.7	1.9				2.2		1.6	2.8	1.4	1.7	

## Appendix VV

Percents of Students Scoring Profile 333 Between and  
 Within Demographic Characteristic Subcategories By Age

Age	Sex			Color		Parent's Occupation					Region				Area	
	M	F	W	B	O	P	MA	C	OP	L	NE	NC	SO	WE	U	R
8		100.0	100.0				100.0				100.0				50.0	50.0
		2.0	1.2				3.8				4.3				0.7	1.5
9	75.0	25.0	100.0			25.0	75.0				25.0		25.0	50.0	75.0	25.0
	3.0	1.0	2.4			3.4	5.7				2.5		1.5	6.1	2.1	1.9
10	66.7	33.3	100.0			16.7	35.3	33.3	16.7		33.3	50.0	16.7		50.0	50.0
	4.0	2.0	3.5			3.6	3.7	4.5	1.6		4.5	4.8	1.6		2.2	4.7
11	33.3	66.7	66.7		33.3	33.3		33.3	33.3			33.3		66.7	66.7	33.3
	1.0	2.0	1.2	100.0	3.7			2.1	1.7			1.7		5.9	1.4	1.9
12	66.7	33.3	100.0			33.3	50.0		16.7		50.0	16.7	33.3		83.3	16.7
	4.0	2.0	3.6			6.9	5.4		1.8		6.8	1.8	3.1		3.5	1.7
13	80.0	20.0	100.0				60.0	40.0			20.0	40.0	20.0	20.0	60.0	40.0
	4.0	1.0	2.9				5.6	4.4			2.3	3.4	1.7	2.6	2.1	3.4
14	40.0	60.0	100.0			60.0	20.0	20.0			20.0	40.0		40.0	80.0	20.0
	2.0	3.0	3.0			9.4	1.8	2.3			2.4	3.5		5.3	2.8	1.8
15	33.3	66.7	100.0			33.3	33.3		33.3				100.0		66.7	33.3
	1.0	2.0	1.7			3.0	1.9		1.8				4.8		1.4	1.8