

FIGURE 20 (continued). The Relationship of Selected Background Questions to Achievement on Drawing Exercises: Age 13

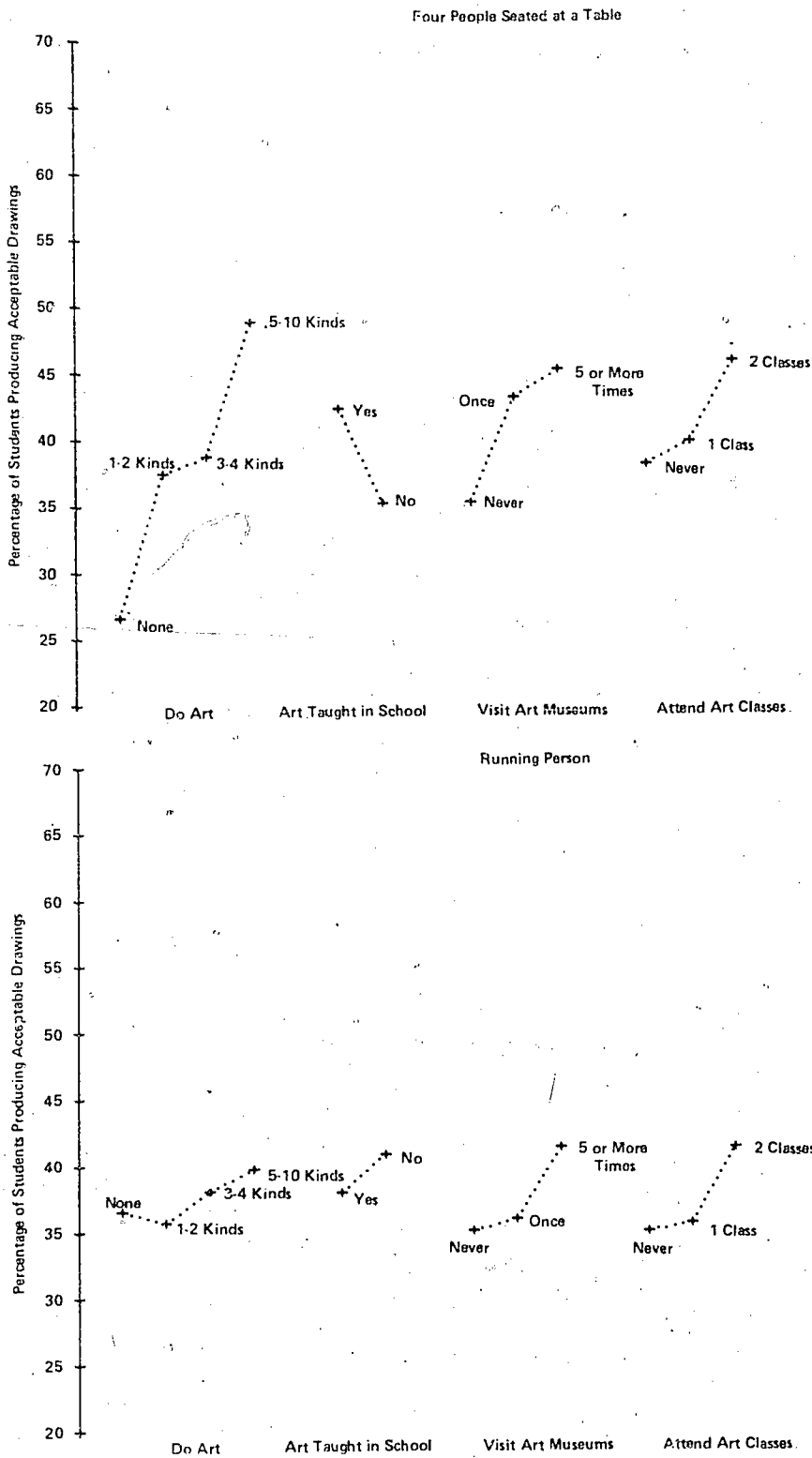
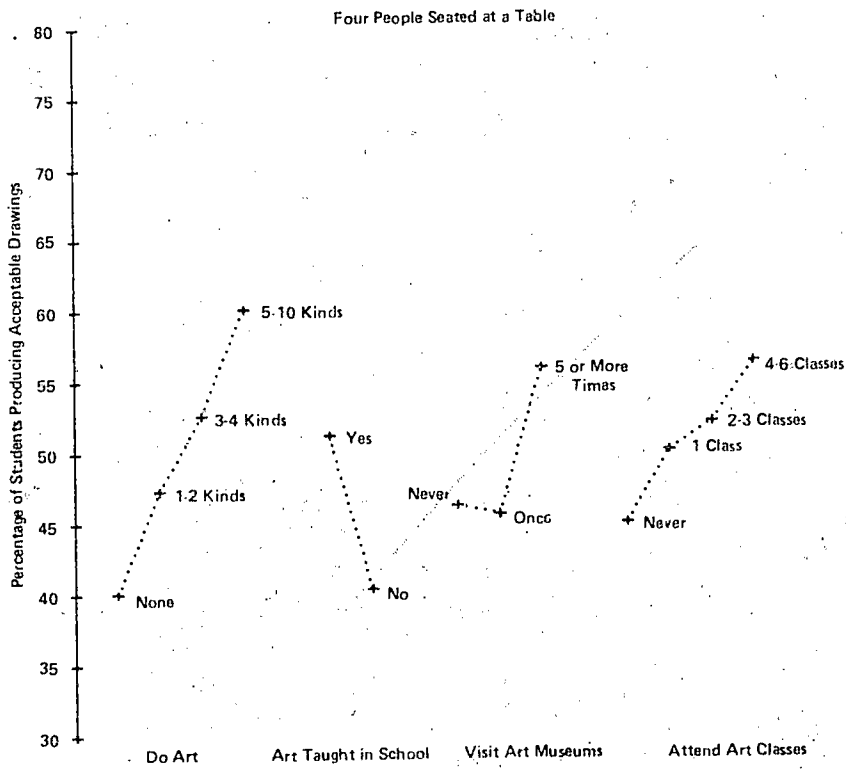
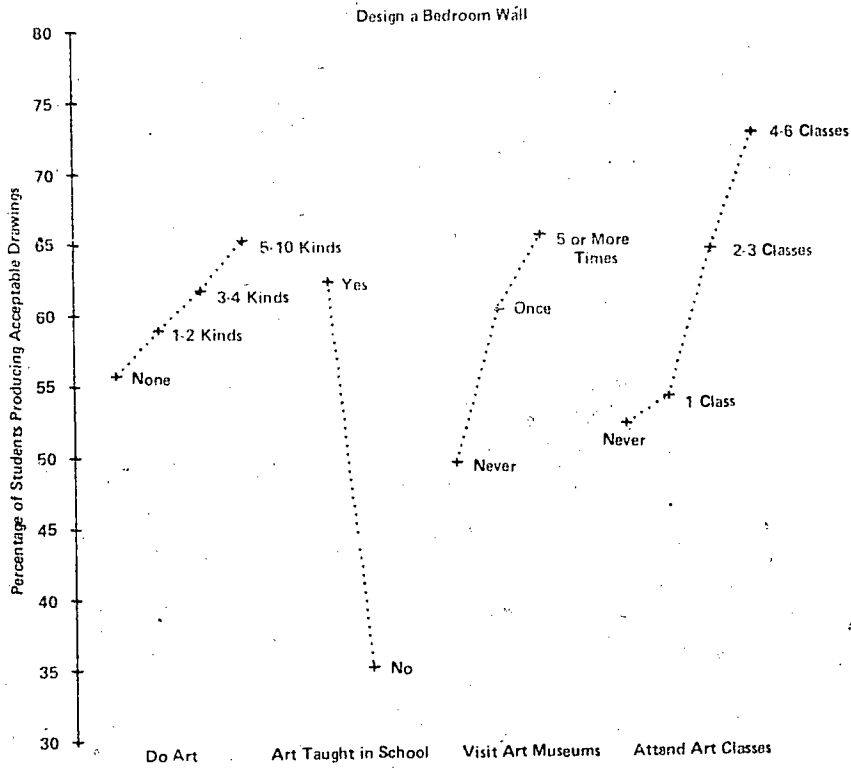


FIGURE 21. The Relationship of Selected Background Questions to Achievement on Drawing Exercises: Age 17



APPENDIX A

SELECTED GROUP RESULTS FOR EACH EXERCISE

Reporting Variables

Sex

Results are presented for males and females.

Race

Currently, results are reported for blacks and whites.

Size and Type of Community

Community types are identified both by the size of the community and by the type of employment of the majority of people in the community.

High metro, high-socioeconomic or affluent urban and suburban communities. Areas in or around cities with a population greater than 200,000 where a high proportion of the residents are in professional or managerial positions.

Low metro, low-socioeconomic or impoverished urban. Areas in or around cities with a population greater than 200,000 where a high proportion of the residents are on welfare or are not regularly employed.

Rural. Areas with a population under 10,000 where most of the residents are farmers or farm workers.

Urban fringe. Communities within the metropolitan area of a city with a population greater than 200,000, outside city limits and not in the high- or low-socioeconomic urban groups.

Main big city. Communities within the city limits of a city with a population over 200,000 and not included in the high- or low-socioeconomic urban groups.

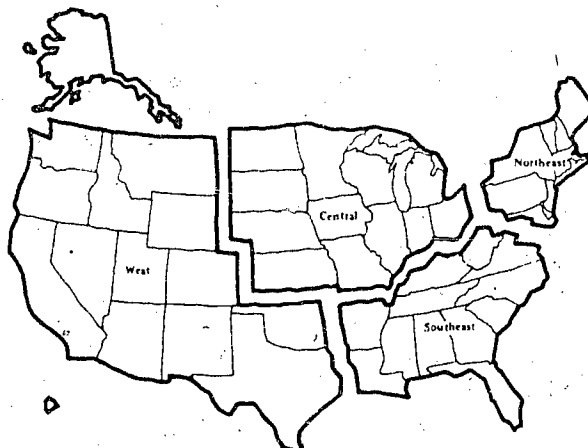
Medium city. Cities with populations between 25,000 and 200,000.

Small places. Communities with a population of less than 25,000 and not in the rural group.

Region

The country has been divided into four regions — Northeast, Southeast, Central and West. The states that are included in each region are shown in Figure 22.

Figure 22. National Assessment Geographic Regions



Parental Education

Four categories of parental education are defined by National Assessment. These categories include: (1) those whose parents have had no high school education, (2) those who

have at least one parent with some high school education, (3) those who have at least one parent who graduated from high school and (4) those who have at least one parent who has had some post-high school education.

TABLE 1. Bedroom-Wall Design: Percentage of Students Giving Acceptable Responses

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro
Age 9	39.9	-6.2	-2.9	4.8	3.1	-2.3*	2.3*	-11.1*	3.0*	-3.3	-6.2	-1.6	5.2*	-17.1*	-9.9	2.0	3.8	4.1	1.2	4.1
Standard error	1.7	3.3	2.8	2.9	2.8	1.0	0.9	4.0	0.8	5.9	5.8	2.6	1.6	3.5	5.6	2.2	3.5	4.2	4.9	5.9
Age 13	54.9	-13.4*	-0.9	4.8	7.5*	-1.8	1.7	-20.4*	4.3*	-2.6	-8.4*	-2.3	7.6*	-10.3	-16.1*	2.8	-6.6	1.7	1.9	15.2*
Standard error	1.6	2.6	3.4	2.4	2.4	1.3	1.2	3.0	0.8	5.2	3.7	1.7	1.2	6.7	3.9	2.0	3.4	4.0	4.5	5.2
Age 17	61.2	-14.2*	3.6	4.7*	3.0	1.7	-1.7	-21.5*	3.2*	-10.1*	-16.0*	-2.1	6.7*	-0.9	-12.5*	-0.4	-2.3	10.1*	0.9	6.5
Standard error	1.5	2.9	2.4	2.2	2.9	1.2	1.2	3.3	0.7	4.3	4.5	1.9	1.1	3.9	4.9	2.0	3.3	4.1	4.5	4.4

*Denotes a significant difference from the nation.

TABLE 2. Bedroom-Wall Design: Percentage of Student Responses in Each Design and Imagination Category

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro
Related Elements																				
Age 9	34.1	-6.8*	-1.4	3.5	3.5	-1.1	1.0	-7.7*	1.7*	1.1	-6.7	-3.0	3.0	-10.2*	0.1	0.8	1.5	-1.1	3.1	0.4
Standard error	1.5	2.2	2.5	2.5	2.6	1.1	1.1	3.1	0.6	5.2	4.8	2.4	1.7	2.9	5.3	2.3	3.4	4.7	3.7	3.2
Age 13	42.1	-11.6*	1.4	4.0	4.5	-2.1	2.0	-11.2*	2.1*	-4.8	0.2	-1.7	4.2*	-1.5	-8.6*	-1.0	-5.3	1.7	8.8	6.5
Standard error	1.5	2.1	2.6	2.0	3.3	1.4	1.3	2.8	0.6	5.3	3.7	1.8	1.3	4.3	3.2	1.9	3.1	4.0	5.7	4.3
Age 17	47.6	-8.9*	-5.5	5.8*	6.6*	-0.9	0.8	-10.7*	1.7*	1.8	-8.4*	-0.9	2.2	4.8	-8.5*	-3.2	-6.4	17.0*	9.6	0.2
Standard error	1.6	2.5	3.0	2.0	3.2	1.2	1.2	2.6	0.5	5.6	3.6	2.1	1.4	4.1	3.8	2.1	3.5	5.0	6.6	4.2
Wall Shape																				
Age 9	38.9	-5.9	-3.8	5.0	3.4	-1.9	1.7	-10.6*	2.9*	-3.5	-6.2	-1.4	5.7*	-16.7*	-8.9	1.6	4.4	3.8	0.4	4.0
Standard error	1.7	3.3	2.6	2.8	2.8	1.0	0.9	4.0	0.8	5.9	5.6	2.6	1.6	3.3	5.6	2.2	3.5	4.1	4.8	3.8
Age 13	53.9	-13.8*	-0.5	4.5	7.9*	-1.6	1.6	-20.2*	4.2*	-1.6	-9.6*	-1.8	7.2*	-10.2	-15.2*	2.5	-6.4	2.1	1.6	13.4*
Standard error	1.6	2.4	3.5	2.4	2.4	1.3	1.2	3.2	0.8	5.2	3.6	1.8	1.2	6.7	3.9	2.0	3.5	4.0	4.6	3.2
Age 17	59.8	-13.6*	2.4	4.7*	3.7	1.1	-1.1	-20.9*	3.1*	-8.6	-16.3*	-2.0	6.5*	-1.5	-11.8*	-0.6	-1.8	9.9*	0.9	6.9
Standard error	1.5	3.0	2.6	2.2	2.8	1.2	1.2	3.3	0.6	4.3	4.6	1.9	1.2	4.0	4.9	2.1	3.4	4.4	4.4	4.5
Door Function																				
Age 9	12.4	-1.4	-2.2	4.7*	-1.4	-0.3	0.2	-6.6*	1.9*	-2.9	-4.3*	1.6	0.2	-5.9*	-5.9*	0.2	-1.7	3.7	8.4*	1.1
Standard error	1.0	1.7	1.7	1.9	1.7	0.9	0.9	1.3	0.4	2.7	3.0	1.7	1.0	1.7	2.1	1.5	2.0	4.1	3.0	2.5
Age 13	18.6	-4.1*	-0.6	3.2	0.7	2.3*	-2.2*	-7.0*	1.3*	-3.2	-4.3*	-2.5	4.5*	-6.2*	-7.0*	1.2	0.0	2.8	0.1	1.8
Standard error	0.9	1.5	1.5	1.6	1.6	0.7	0.7	2.0	0.4	3.3	2.3	1.3	1.0	2.9	2.3	1.4	2.3	3.9	2.6	3.4
Age 17	21.4	-7.7*	4.1*	5.5*	-4.3*	4.1*	-4.0*	-13.1*	1.9*	-8.6*	-4.2	1.5	1.6	-1.7	-7.0*	3.4*	-3.9	3.8	0.9	-2.4
Standard error	1.1	1.9	1.9	1.6	1.8	1.0	1.0	1.5	0.5	3.9	3.1	1.3	1.1	2.5	2.4	1.4	2.5	6.4	2.9	2.9
Unusual Elements																				
Age 9	7.1	-2.0*	0.9	1.4	-0.6	2.9*	-2.7*	-4.1*	0.7*	-4.9*	-3.2	0.0	2.1*	-3.7*	-1.8	-0.7	-0.1	-3.3	2.7	5.1*
Standard error	0.5	0.7	0.9	1.0	0.9	0.6	0.6	0.9	0.3	1.3	2.1	1.1	1.0	1.0	1.6	0.9	1.1	1.9	1.8	1.5
Age 13	17.0	-1.8	-1.1	2.4	-0.1	4.6*	-4.3*	-6.4*	1.1*	-6.3*	-5.3*	-2.8*	4.4*	-3.2	-8.8*	0.5	1.2	-5.1*	1.7	7.8*
Standard error	1.0	1.9	1.6	1.6	1.7	1.1	1.0	1.6	0.4	2.6	2.2	1.3	1.2	2.4	1.8	1.2	2.3	1.9	2.4	2.9
Age 17	26.1	-7.0*	6.4*	-1.4	1.2	4.3*	-4.2*	-17.1*	2.3*	-7.6	-4.5	1.2	1.9	-0.8	-6.9*	0.1	3.7	4.9	0.0	-5.2
Standard error	1.2	2.0	2.6	1.6	2.4	1.2	1.2	2.0	0.5	4.0	3.3	1.4	1.0	3.6	2.5	1.6	3.8	7.7	3.3	4.0
Sovel Combination																				
Age 9	1.3	-0.9*	0.8	0.6	-0.6*	0.3	-0.3	-1.0*	0.1	-0.9	-1.3*	0.8	0.0	1.3*	0.2	0.4	-1.0*	0.4	0.0	1.0
Standard error	0.2	0.3	0.6	0.5	0.2	0.3	0.3	0.4	0.1	0.5	0.2	0.6	0.3	0.2	0.8	0.5	0.3	1.0	0.9	0.6
Age 13	1.4	-0.4	-0.1	0.0	0.6	0.7*	-0.7*	-0.4	0.1	-0.2	-1.0*	-0.3	0.7*	-1.1*	0.4	-0.5	0.3	0.2	0.8	0.3
Standard error	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.6	0.1	1.0	0.4	0.4	0.3	0.4	1.3	0.3	0.7	0.7	0.9	0.8
Age 17	3.3	-1.9*	-0.4	1.5	0.2	-0.5	0.5	-2.1*	0.3*	-2.4*	2.1	0.0	0.1	2.0	-1.9*	-0.5	-0.9	-0.3	-0.6	2.2
Standard error	0.5	0.6	0.7	0.8	1.0	0.5	0.5	0.6	0.1	0.9	2.3	0.7	0.6	1.7	0.8	0.6	0.9	1.6	1.5	1.5

*Denotes a significant difference from the nation.

TABLE 3. Four People Seated at a Table: Percentage of Students With Acceptable Responses

	National	South-east	West	Central	South-west	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Weg Big City	Urban Fringe	High Metro
Age 9	27.9	-1.4*	0.7	-0.2	0.7	1.3	1.2	-1.5*	2.5*	-2.5	-0.7	1.2	2.4*	-12.9*	-0.6	-0.2	-1.7	0.1	2.8*	2.7
Standard error	1.1	1.3	1.6	1.8	2.0	1.1	1.0	1.0	1.3	1.2	1.7	2.0	1.4	3.0	2.1	1.5	2.0	2.9	2.6	3.5
Age 13	41.9	-8.1*	-2.4	-6.3*	3.5	-0.1	-0.1	-2.1*	4.1*	-10.8*	-12.9*	-0.5	2.7*	-16.2*	-0.1	0.6	-3.5	-1.4	6.5	13.1*
Standard error	1.1	1.6	2.1	2.0	2.4	1.2	1.2	2.8	0.7	3.1	3.8	2.1	1.6	6.8	3.9	1.6	3.0	4.8	3.3	3.1
Age 17	50.9	-10.6*	4.8*	4.0	-0.7	-1.6	1.6	-2.3*	4.4*	-12.6*	-12.9*	-0.5	6.6*	-12.0*	-5.3	1.7	0.2	-6.5	6.3	8.7*
Standard error	1.6	2.5	2.4	2.8	2.7	1.4	1.3	2.3	0.7	3.1	3.8	1.5	1.3	5.0	4.4	2.0	3.1	3.9	3.2	4.3

*Denotes a significant difference from the nation.

TABLE 4. Four People Seated at a Table: Percentage of Student Responses Within Each Table-Top Response Category

	National	South-east	West	Central	South-west	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Weg Big City	Urban Fringe	High Metro
<u>Do anything other than</u>																				
Age 9	19.7	0.6	0.1	2.1	-0.1	1.0	1.0	1.6	0.4	2.5	0.9	-0.3	0.1	-0.3	1.8	-0.7	1.9	-2.7	2.7	2.7
Standard error	1.0	1.8	2.6	1.4	1.9	1.0	1.0	2.5	0.5	1.7	1.6	1.6	1.2	3.6	2.9	1.1	3.2	4.8	3.0	3.2
Age 13	29.7	-2.5	-0.3*	3.2*	3.0*	0.1	-0.1	-3.3	1.5*	-0.7	-5.3*	0.6	1.0	-1.7	-1.1	1.7	-0.5	-0.6*	2.3	-2.9
Standard error	1.0	1.5	1.9	1.7	1.6	1.3	1.4	3.1	0.5	3.5	2.8	1.3	1.1	4.6	2.5	1.6	2.8	2.7	2.7	3.3
Age 17	32.6	-1.9	1.5	1.2*	-3.6	1.0	-1.0	-15.5*	3.2*	-0.7*	-11.0*	-2.1	7.8*	7.5	-3.6	2.5	3.0	-7.4	1.7	1.9
Standard error	1.5	2.3	2.6	2.0	2.6	1.3	1.2	5.2	0.5	1.1	2.8	1.7	1.3	3.9	1.7	1.7	2.9	4.1	2.8	4.5
<u>Get in government, if that</u>																				
Age 9	16.5		0.8	-0.2	1.5	-2.3*	2.0*	-0.3	0.2	-0.4	1.0	-2.6	0.2	3.1	1.6	-0.4	0.1	3.1	-1.9	-2.1
Standard error	0.9		1.6	1.7	1.4	1.1	1.1	2.3	0.5	1.1	3.6	1.5	1.3	3.2	2.7	1.1	1.7	5.5	1.9	2.6
Age 13	23.0	2.5	3.0*	-1.9	1.8	-3.8*	3.2*	-6.1*	0.1	-0.7	2.2	0.9	-0.2	-2.9	0.0	-1.0	-0.6	3.2	-4.1	3.6
Standard error	1.3	1.5	2.8	1.9	2.5	1.1	1.0	2.6	0.5	3.7	3.3	1.1	1.0	5.6	3.1	1.5	1.9	4.2	3.4	3.2
Age 17	21.5	1.9	1.0*	-0.6	3.8	-2.1*	2.0*	-5.2	0.8	-1.1	1.9	2.2	-1.3	-4.1*	-1.2	-1.2	2.7	1.7	0.3	5.7*
Standard error	1.0	2.1	1.7	1.4	2.0	1.0	1.0	2.6	0.5	3.6	2.8	1.5	1.1	1.7	2.5	1.5	3.1	4.4	3.3	3.8
<u>Prefer Yes</u>																				
Age 9	35.3	-0.7	3.0	-0.8	-1.5	0.9*	-0.8*	-2.1	1.1*	5.9	5.2	1.5	0.9	-5.2	-0.2*	1.0	1.7	-0.5	2.0	-0.4
Standard error	1.2	1.9	2.3	1.9	1.9	1.2	1.1	2.4	0.5	4.8	4.6	2.5	1.6	3.4	2.5	1.6	2.7	3.3	3.0	4.6
Age 13	22.4	-0.2	0.6	1.9	1.7	2.0*	-7.2*	1.7	0.1	-3.0	-2.8*	-0.1	2.2	4.1	-0.0	0.5	-0.5	2.0	-4.7	1.0
Standard error	1.2	2.1	2.0	1.8	2.0	1.1	1.1	2.4	0.4	3.8	2.5	1.5	1.2	3.6	3.6	1.4	2.5	4.0	2.9	3.8
Age 17	11.6	1.1	1.0	-1.3	-3.3*	1.3*	-1.1*	1.8	0.2	-4.4	1.5	1.9	-1.2	-0.9	3.0	0.4	-1.6	2.8	0.0	-2.0
Standard error	0.8	1.5	1.6	1.3	1.2	0.9	0.8	2.5	0.3	3.4	2.5	1.4	1.0	1.7	3.8	1.4	2.0	2.8	2.1	2.6
<u>High-Grade Yes</u>																				
Age 9	22.9	2.1	-0.5	-1.5	-3.3	-2.3*	2.3*	-0.2	0.6	1.2	-1.7	-0.2	-0.2	0.8	3.6	3.2*	-1.3	1.0	-6.2*	0.3
Standard error	1.5	3.1	1.7	2.2	1.9	1.1	1.1	2.2	0.5	5.1	3.8	1.8	1.3	3.0	3.4	1.6	2.4	4.7	2.5	3.2
Age 13	20.3	6.9*	1.1	-2.1	-6.5*	-3.2*	3.1*	15.5*	-1.9*	2.5	10.7*	2.1	-3.5*	4.5	3.3	0.8	1.5	1.1	-4.1	-7.4
Standard error	1.3	2.2	2.2	1.9	2.7	1.2	1.1	3.1	0.5	4.2	3.8	1.5	1.1	5.6	4.5	1.6	2.9	3.9	3.6	3.9
Age 17	12.8	3.9	-0.5	-0.8	-0.8	-3.1*	3.3*	15.3*	-2.1*	14.2*	5.9	-0.6	-3.3*	1.9	7.8*	-1.6	-2.1	3.6*	0.1	-6.7*
Standard error	0.9	2.1	1.7	1.3	1.4	0.7	0.7	2.3	0.5	4.4	3.0	1.1	0.9	2.9	3.0	1.5	1.7	2.8	2.5	2.0
<u>Average for starting up</u>																				
Age 9	6.7	0.7	0.7	-0.9	0.2	-0.6	0.6	0.5	-0.1	-2.4	0.5	1.2	-0.6	1.1	-0.4	-0.9	0.8	-1.8	2.2	-0.2
Standard error	0.6	1.3	1.0	0.8	0.9	0.6	0.6	1.1	0.3	2.0	2.0	1.5	0.9	2.5	1.7	0.8	1.1	2.0	1.5	1.7
Age 13	12.8	-1.7	0.4	-1.3	3.1	-1.1	1.1	-3.7	0.3	2.5	0.8	-1.3	0.8	-3.1	-1.5	-0.9	0.1	-2.1	1.9	5.3
Standard error	0.8	1.5	1.3	1.3	1.6	0.8	0.8	2.0	0.4	3.8	3.2	-1.0	0.8	2.4	1.9	1.1	2.0	2.8	2.7	5.8
Age 17	13.5	-3.4*	2.1	-2.8*	4.1*	-1.1	1.9	-0.5	-0.4	2.6	0.4	-1.4	0.5	4.2	-5.8*	-0.6	0.5	-1.3	-0.3	1.9
Standard error	0.9	1.6	2.0	1.2	1.7	0.8	0.8	2.2	0.4	3.1	2.4	1.2	0.9	3.4	1.8	1.2	2.3	3.3	2.8	1.9

*Denotes a significant difference from the nation.

TABLE 5. Four People Seated at a Table: Percentage of Student Responses Within-
Each Table-Leg Perspective Category

	National	South- east	West	Central	North- east	Male	Female	Black	White	No High School	Some High School	Gradu- ated High School	Post high School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro
No Legs Shown																				
Age 9	20.7	1.4	1.3	3.5	0.0	-1.3	2.2	0.0	2.0	0.2	-7.2*	-2.2	0.4	2.8	3.2	-1.9	-0.9	-1.2	-2.1	1.2
Standard error	1.7	1.3	1.0	2.0	1.7	1.3	1.2	2.1	0.7	3.1	3.5	1.5	1.4	2.3*	2.7	1.6	-2.5	3.6	3.3	3.0
Age 13	23.2	1.5	0.1	0.1	2.1	-2.8*	3.7*	4.3	1.2	-1.5	3.7*	0.4	-2.7*	2.7	3.0	1.2	3.2	-0.9	-3.6	-1.7
Standard error	1.4	1.0	1.0	1.3	1.2	1.1	1.1	3.3	0.6	3.7	3.8	1.5	1.1	4.3	4.3	1.2	2.5	3.0	2.9	2.8
Age 17	21.6	1.2	-1.1	-3.6*	-0.7	-3.6*	3.4*	13.0*	-2.3*	15.8*	7.3*	-2.6*	-2.7*	3.3	3.5	-1.9	-3.1	11.0*	-4.0	3.1
Standard error	1.1	1.7	1.2	1.6	1.5	1.0	1.0	2.1	0.5	4.0	3.0	1.2	0.9	2.9	2.4	1.4	2.5	4.1	2.7	2.5
Legs Foreshortened																				
Age 9	12.1	-0.4	-1.0	-4.3*	3.0*	-2.9*	2.0*	-5.6*	0.7*	-6.0*	2.0	0.3	1.3	-0.1	-5.9*	-0.9	-1.3	-1.0	0.8*	2.1
Standard error	0.8	1.1	1.5	1.2	1.3	0.8	0.8	1.1	0.3	2.1	3.5	1.6	1.5	2.8	1.8	1.2	2.0	2.2	2.0	2.2
Age 13	23.7	-1.1	-1.1	1.2	0.5	0.7	0.7	-11.7*	2.2*	-0.3	-3.3	-1.0	2.3*	-3.0	-5.0*	-1.1	2.6	-5.7	6.3	3.0
Standard error	1.1	1.3	2.1	1.7	2.3	1.2	1.2	-2.2	0.5	4.2	3.5	1.6	1.2	2.5	2.1	1.3	2.2	3.1	3.8	4.9
Age 17	22.3	-1.5*	-1.8*	7.2*	-0.6*	2.2	-2.1	-22.2*	3.6*	9.0*	10.1*	-5.0	6.3*	-11.0*	-8.5*	3.1	0.7	-6.8	3.1	10.1*
Standard error	1.1	2.1	2.3	2.1	2.8	1.3	1.2	2.1	0.6	4.2	3.0	1.7	1.5	3.5	3.7	2.0	2.8	3.6	3.7	4.1
Legs Not Foreshortened																				
Age 9	67.0	1.1	2.1	0.1	-3.5*	1.3*	3.3*	3.1	-0.5	3.1	3.2	2.3	-1.7	32.2	3.7	2.7	2.0	2.7	-3.1	-0.2*
Standard error	1.4	2.3	2.1	2.0	2.1	1.3	1.2	2.0	0.5	3.5	4.1	2.3	1.5	2.7	2.8	1.8	2.2	2.8	4.1	3.9
Age 13	34.3	-1.0	1.7	-1.0	0.1	4.3*	-1.1*	6.6	-0.9	2.5	-0.3	0.0	0.2	1.6	4.3	1.2	-5.0	4.3	-1.5	-1.5
Standard error	1.0	2.1	2.5	2.3	3.0	1.1	1.1	1.0	0.7	4.4	3.9	1.5	1.1	4.5	3.4	1.5	3.5	3.1	3.5	3.9
Age 17	42.4	3.0	-5.0*	-2.9	6.3*	0.1	-0.1	4.7	-0.5	-5.8	1.1	5.4*	-3.1*	3.9*	0.8	-2.3	3.1	-3.5	1.4	-5.9
Standard error	1.4	2.3	2.3	2.1	2.7	1.2	1.1	2.7	0.5	4.1	3.5	1.7	1.3	2.9	3.0	1.9	3.2	3.4	4.3	3.3

*Denotes a significant difference from the national.

TABLE 6. Four People Seated at a Table: Percentage of Student Responses Within
Each Chair-Leg Category

	National	South- east	West	Central	North- east	Male	Female	Black	White	No High School	Some High School	Gradu- ated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro
No Legs Shown																				
Age 9	55.5	4.0	-3.2	1.5	-1.6	-3.7*	2.7*	10.8*	12.5*	-3.4	-0.5	0.0	-5.2*	12.0*	2.7*	-0.1	-0.3	-1.9	-1.2	-3.0*
Standard error	1.2	2.8	2.1	2.2	1.8	1.2	1.2	2.7	0.6	5.0	3.1	2.3	1.5	5.0	3.3	1.8	3.5	1.2	3.0	2.7
Age 13	28.6	3.2	-1.0	-1.2	-2.1	-5.5*	3.3*	15.2*	-2.1*	6.8	16.2*	1.2	-6.6*	8.8	10.1*	-1.5	1.9	-1.1	-2.1	-9.0*
Standard error	1.3	2.0	2.1	2.0	2.7	1.4	1.1	3.9	0.6	3.5	4.0	1.4	1.1	6.2	4.6	1.7	2.7	3.0	3.0	2.8
Age 17	19.8	0.2*	-2.0	-6.0*	3.1	-5.1*	3.0*	21.0*	-3.6*	14.5*	7.9*	0.0	-4.0*	10.3*	4.7	2.0	1.2	7.8*	-0.4*	-5.7
Standard error	1.1	2.8	1.7	1.1	2.1	1.0	1.0	3.3	0.7	1.7	3.3	1.5	1.1	1.1	3.2	1.5	2.5	3.0	2.3	3.0
Legs Foreshortened																				
Age 9	6.2	-2.8*	-1.0	0.1	3.2	0.2	0.2	-1.3	1.0	1.2	-2.9	-1.1	1.1*	-1.9	-2.8	-0.7	-0.3	-0.8	1.5*	3.0
Standard error	0.5	1.1	0.9	0.5	1.0	0.6	0.5	0.9	0.2	3.4	1.8	0.9	0.5	1.8	1.5	0.9	1.5	1.9	1.8	1.8
Age 13	18.5	-3.7*	-2.6	2.5	3.0*	0.1	-0.1	-12.0*	1.8*	-8.1*	-8.5*	-1.1	3.3*	-4.2*	-8.5*	-0.0	1.1	-3.3	3.6	12.2*
Standard error	1.1	1.7	2.2	1.7	1.8	1.0	0.9	1.1	0.1	3.3	3.3	1.4	1.1	2.3	2.6	1.5	2.1	4.9	3.1	3.9
Age 17	26.0	-6.2*	-3.1	3.0	-2.5	-0.7	0.7	-17.4*	2.8*	-10.7*	-9.7*	-0.7	4.9*	-7.6	-4.7	-1.3	1.3	-3.8	2.3	11.2*
Standard error	1.3	2.3	2.2	2.0	2.6	1.1	1.1	1.8	0.5	3.6	2.8	1.8	1.2	4.0	0.1	1.8	2.5	0.2	1.0	2.7
Legs Not Foreshortened																				
Age 9	58.0	-1.0	1.9	-1.1	1.2	2.0*	-2.8*	-0.7*	1.5*	-1.2	3.8	1.5	3.8*	-0.7*	-1.9	0.0	0.1	3.1	-0.7*	3.3
Standard error	1.3	1.9	2.2	2.2	1.7	1.0	1.0	2.6	0.6	6.2	5.1	2.1	1.0	4.3	3.1	1.0	3.2	4.0	3.6	3.3
Age 13	51.8	0.3	3.7	-2.1	-2.0	3.2*	-3.0*	-2.8	0.6	2.1	-7.7	0.0	1.2	1.1	-1.6	2.1	-2.5	1.0	-2.1	-3.5
Standard error	1.3	2.0	2.9	2.0	2.3	1.7	1.3	4.1	0.6	3.0	1.7	1.5	1.9	2.2	1.2	1.7	3.0	7.7	2.0	3.3
Age 17	49.7	-1.3	-1.0	73.9*	-0.2	2.2*	-2.1*	-8.1*	1.5*	-2.9	0.1	-0.3	0.3	-3.1	0.6	2.9	1.1	-3.7	3.7	-7.6
Standard error	1.3	2.8	2.1	1.9	2.3	1.2	1.2	3.7	0.6	4.6	3.8	1.8	1.3	3.7	3.1	1.8	3.2	3.3	3.1	3.8

*Denotes a significant difference from the national.

TABLE 7. Four People Seated at a Table: Percentage of Students Using Distance- and Overlap-Perspective Techniques

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro
Near Figure Lower																				
Age 9	39.8	-7.5*	-0.3	-2.2	8.5*	-2.5	2.2	-10.8*	2.7*	1.3	-4.6	1.7	1.6	-9.5	1.1	-3.4	2.8	0.1	3.1	6.6*
Standard error	1.5	2.9	2.1	2.1	2.1	1.2	1.2	2.4	0.6	5.3	4.8	2.4	1.7	5.3	4.1	2.0	3.1	4.4	3.9	5.3
Age 13	49.0	-10.5*	-0.5	3.7*	7.4*	-1.5	1.5	-17.8*	2.3*	-0.8*	-6.1	-2.3	5.3*	-11.5*	-3.9	2.6	-7.5*	-1.5	2.5*	5.4
Standard error	1.4	2.7	2.5	1.8	2.0	1.4	1.5	3.7	0.7	4.4	3.9	1.6	1.5	5.5	4.4	1.8	3.4	4.0	3.5	4.0
Age 17	56.3	-5.3*	3.7	-1.0	2.0	-2.0	1.9	-21.1*	5.6*	-12.3*	-6.6	-2.2	3.1*	-12.4*	-4.3	3.0	1.1	-1.1	-1.5	8.5*
Standard error	1.6	2.6	2.3	2.9	2.8	1.5	1.2	3.0	0.7	4.8	4.6	1.6	1.4	3.7	4.9	2.0	3.0	5.6	3.4	4.5
Distant Figure Higher																				
Age 9	49.5	-6.0	-0.8	-3.1	8.7*	-2.1	2.1	-12.1*	2.7*	-5.1	-8.0	1.9	3.0	-11.9*	-0.6	-2.9	6.4	-1.3	2.2	3.5
Standard error	1.5	3.2	2.1	2.0	2.2	1.2	1.2	2.5	0.6	5.6	4.9	2.3	1.6	5.7	4.6	1.7	3.9	3.2	3.4	2.9
Age 13	50.9	-10.4*	-1.6	1.4	11.5*	-1.9	1.9	-16.4*	2.6*	-3.3	-7.0	-2.2	5.9*	-7.5	-1.5	-1.2	-3.6	-2.8	8.6	8.5*
Standard error	1.5	2.6	2.4	2.0	2.6	1.3	1.5	3.3	0.7	3.8	4.5	1.7	1.4	6.5	3.7	1.7	3.1	5.5	4.7	4.1
Age 17	64.8	-6.7*	1.8	-0.3	4.1	-3.6*	3.5*	-19.2*	2.6*	-8.9	-3.9	-0.4	3.6*	-5.1	-3.2	1.7	-0.7	-6.3	-0.4	8.7*
Standard error	1.6	3.0	2.3	3.0	2.4	1.2	1.1	2.8	0.6	4.7	3.5	1.7	1.3	5.7	4.7	1.7	3.5	5.7	3.1	3.8
Figure Overlapping Table																				
Age 9	15.7	-6.4*	3.6*	0.4	1.6	-0.4	0.4	-13.0*	2.7*	-4.1	-3.1	-0.2	3.4*	-8.6*	-2.2	-0.3	1.7	-3.2	1.6	4.3
Standard error	1.0	1.1	1.5	1.8	1.6	1.0	1.0	1.2	0.4	2.8	3.4	1.9	1.5	2.4	2.3	1.3	2.5	3.3	2.6	2.7
Age 13	37.4	-5.0	-1.1	5.1*	0.2	-0.3	0.3	-25.1*	4.2*	-7.8	-16.2*	-4.1*	9.2*	-13.0*	-10.6*	1.1	-7.7	-0.9	2.6	17.0*
Standard error	1.3	2.7	2.2	2.0	2.3	1.2	1.2	2.6	0.6	4.1	2.9	1.5	1.5	6.1	4.7	1.7	3.5	6.1	2.7	3.9
Age 17	45.5	-10.8*	6.7*	4.8*	-3.2	-2.3	2.2	-21.8*	3.7*	-15.3*	-8.1*	-1.9	6.8*	-8.6*	0.4	-0.8	-1.8	0.0	4.4	10.3*
Standard error	1.4	2.4*	2.2	2.3	2.0	1.4	1.3	2.8	0.6	4.1	3.8	1.5	1.1	3.6	4.8	1.6	3.5	4.0	3.6	3.2
Table Overlapping Figure																				
Age 9	34.2	-9.4*	3.5	2.9	1.7	-0.5	0.5	-16.3*	2.8*	-2.5	-7.7	-3.5	6.5*	-12.0*	-7.0	-2.6	3.1	-7.2	10.8*	6.4
Standard error	1.1	1.9	2.0	2.0	1.8	1.2	1.2	2.4	0.6	5.1	4.9	2.2	1.8	4.8	3.6	1.9	2.2	4.7	3.5	3.3
Age 13	59.3	-7.0*	-2.4	5.8*	3.1	1.1	-1.1	-23.3*	3.6*	-8.5	-10.5*	0.1	7.0*	-11.2	-7.1	2.2	0.6	-11.4*	1.6	9.9
Standard error	1.4	2.5	2.3	2.2	2.9	1.2	1.2	3.3	0.7	4.3	4.1	1.8	1.8	5.7	3.6	1.6	3.4	5.2	3.4	5.0
Age 17	67.8	-12.7*	4.7*	5.3*	-0.5	0.2	-0.2	-24.0*	3.7*	-11.9*	-8.6*	0.3	4.6*	-7.1	-6.1	0.5	-1.4	-6.5	5.1	11.9*
Standard error	1.4	2.6	2.2	2.5	2.3	1.2	1.2	2.9	0.7	4.7	3.7	1.5	1.4	4.1	4.5	1.6	3.3	4.7	2.9	2.9
Figure Overlapping Figure																				
Age 9	7.4	-4.2*	1.4	1.8	0.4	1.6*	-1.6*	-5.5*	1.3*	-2.3	-3.3	0.6	3.1*	-4.8*	-3.8*	1.8	-3.3*	-0.5	2.3	2.7
Standard error	0.7	1.0	1.2	1.5	1.3	0.6	0.6	0.9	0.5	2.2	2.5	1.1	1.2	1.5	1.2	0.9	1.1	3.2	1.9	2.2
Age 13	12.9	-2.4	-1.5	3.0*	0.6	2.0*	-1.9*	-7.0*	1.4*	-3.1	-7.9*	-1.5	3.6*	-3.3	-0.8	1.1	-1.6	-4.0	-0.1	4.2
Standard error	0.8	1.4	1.4	1.2	1.7	0.9	0.8	1.4	0.5	2.9	1.5	1.1	0.9	2.7	2.3	1.0	2.0	5.0	1.7	3.4
Age 17	16.8	-5.6*	2.0	3.2	-1.1	2.9*	-2.8*	-10.6*	2.1*	-1.9	-5.0*	-0.5	2.7*	-7.1*	2.4	0.2	-2.1	-3.8	5.2	5.6*
Standard error	1.0	1.6	1.7	1.8	1.6	0.9	0.9	1.9	0.4	3.5	2.1	1.5	1.0	1.9	3.7	1.4	1.8	2.8	3.2	2.7

*Denotes a significant difference from the nation.

People Seated at a Table: Percentage of Students Following Exercise Instructions

South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro
-1.1	-3.5	3.3	0.6	-2.7*	2.6*	-10.1*	2.3*	-6.0	-5.6	-1.1	3.2*	-10.5*	4.2	3.1	-1.6	-5.1	-2.8	0.8
3.5	1.9	1.9	2.1	1.1	1.1	3.0	0.6	4.9	4.5	1.8	1.4	3.6	2.3	1.6	2.8	4.5	4.1	2.5
-2.5	-4.5	3.0	4.3*	-1.5	4.4	0.6	0.7	-2.0	-0.3	-0.5	1.4	-0.4	-0.7	2.4	-3.0	-4.6	0.9	-2.1
2.6	2.3	2.0	2.1	1.0	1.0	2.9	0.5	4.2	3.2	1.2	0.9	3.4	2.6	1.7	3.6	3.8	4.1	3.4
-2.3	0.7	-0.3	1.5	-3.5*	3.4*	-4.0	0.4	5.2	-5.8	0.9	0.4	-3.2	0.1	-0.3	0.1	-2.5	6.2	-1.6
3.0	2.3	2.5	2.4	1.1	1.1	2.4	0.4	3.6	3.1	1.4	1.1	4.0	4.6	2.1	3.2	4.9	3.4	3.5
-8.1*	4.9*	-0.2	2.4	3.8*	-3.8*	-12.4*	2.5*	-9.3*	-8.0*	0.9	6.9*	-10.6*	-3.7	-1.7	-1.1	-1.0	7.6*	7.0*
1.8	2.4	2.0	2.0	0.9	0.9	2.0	0.6	3.2	3.4	2.2	1.6	4.1	3.8	1.5	2.5	4.6	3.7	3.1
-3.2	-0.7	1.5	2.5	4.5*	-4.4*	-18.0*	3.7*	-7.0	-13.8*	0.1	7.6*	-9.6	-11.2*	1.2	-0.5	1.0	2.7	9.8
2.2	2.1	1.9	2.3	1.2	1.1	2.6	0.6	5.0	3.7	2.1	1.6	6.2	3.3	1.8	2.4	6.6	4.3	6.0
-12.0*	6.7*	3.8	-1.0	2.3	-2.2	-22.3*	4.0*	-18.8*	-8.1*	-1.1	6.4*	-12.5*	-2.9	0.9	-1.1	-5.9	7.1	11.0*
1.8	2.1	2.4	2.1	1.3	1.3	2.8	0.6	4.2	3.2	1.8	1.3	2.7	4.8	1.7	3.2	5.3	4.2	4.3
-5.1	-0.9	0.1	4.7	-1.7	1.7	-17.3*	3.5*	-0.7	-12.4*	1.1	4.6*	-13.5*	1.3	3.0	-2.9	-8.1*	-1.8	7.8*
3.0	2.3	2.9	2.5	1.3	1.3	2.6	0.7	5.3	5.1	2.2	1.9	6.5	2.9	1.9	3.5	3.4	5.2	3.6
-2.6	-4.1	1.8	5.4*	-2.6*	2.5*	-2.2	1.4*	-6.8	-0.8	-0.7	4.0*	-9.2	-0.3	3.5	-4.5	-5.1	1.7	0.9
3.4	2.6	2.0	2.1	1.1	1.1	4.1	0.7	5.0	4.2	1.5	1.1	5.2	3.5	1.9	3.8	4.9	4.3	3.1
-5.0	-1.3	1.8	0.6	-5.3*	5.3*	-12.5*	2.1*	0.2	-5.9	1.2	2.0	-8.4	-0.7	0.7	2.1	-2.6	5.5	-0.5
2.7	2.3	2.7	2.8	1.3	1.3	2.4	0.5	3.8	3.6	1.5	1.2	4.6	5.4	2.2	3.9	5.2	2.9	4.2
-1.1	-1.7	-2.2	4.6*	-2.9*	2.9*	-3.1	0.6	-11.4*	-7.6	6.0*	0.4	1.6	-9.2*	1.1	-4.7	3.5	5.1	2.7
2.5	2.6	2.0	1.8	1.3	1.2	3.4	0.7	5.5	5.3	2.2	2.0	3.9	3.0	1.7	2.5	5.2	2.8	3.1
-0.1	-0.5	1.0	-0.6	1.0	-1.0	0.6	0.2	-1.8	-8.0	2.9	0.0	-3.8	-3.7	-1.0	0.0	11.5*	-0.6	4.0
2.3	2.4	2.0	2.4	1.3	1.3	3.2	0.5	4.6	4.4	1.9	1.4	4.9	4.5	1.7	2.8	3.0	3.2	5.3
1.5	-3.7	1.3	0.6	1.7	-1.6	-1.5	0.7	-3.4	3.6	-6.6*	4.0*	2.4	0.9	-4.9*	4.0	-1.9	8.1*	-0.9
2.1	2.2	2.1	2.2	1.3	1.3	3.5	0.6	4.3	3.5	2.0	1.4	3.9	3.0	1.4	3.8	3.7	3.3	4.3

om the nation.

TABLE 9. Children on a Playground: Percentage of 9-Year-Olds Using Each Drawing Characteristic

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main City	Urban Fringe	High Metro
<u>Acceptable</u>	12.6	-9.0*	1.5			1.5	-1.1	-19.6*	3.1*	-8.8*	-13.6*	-2.8	2.9*	-18.5*	-3.8	3.5	-1.9	-10.0*	11.7*	4.8
Standard error	1.5	2.1	2.5			1.2	1.1	2.1	0.7	4.3	4.6	2.0	1.5	4.1*	3.5	1.8	2.5	4.4	3.2	4.1
<u>At least three figures</u>	96.2	-1.1	0.1	0.1	0.1	-0.8	0.7	-5.0*	0.9*	-0.6	-0.8	-0.7	1.2*	-4.7	0.4	0.5	-0.9	-0.4	1.3	1.9*
Standard error	0.4	0.6	0.6	0.6	0.7	0.5	0.4	1.6	0.5	1.9	5.6	0.7	0.4	3.1	1.1	0.5	0.7	1.3	0.8	0.7
<u>Objects Present</u>	81.6	-1.5	1.9	-3.6	3.1	-3.2*	2.9*	-10.2*	2.3*	-8.5	-3.3	-0.4	2.5*	-14.0*	-12.9*	2.9	2.1	7.4*	4.1	0.2
Standard error	1.5	2.1	2.5	2.1	2.0	1.0	1.0	2.5	0.8	4.8	4.0	2.0	1.2	4.7	3.2	1.6	1.8	3.7	4.5	4.2
<u>Figures Higher</u>	77.8	-5.8*	-3.9*	1.0*	1.4*	-1.1	1.0	-13.3*	2.9*	-3.3	-10.0	-0.8	4.1*	-15.0*	0.3	1.6	-0.9	3.4	5.7	0.6
Standard error	1.0	1.7	1.8	1.4	1.6	1.0	0.9	2.7	0.6	4.8	5.7	1.7	1.2	4.3	2.7	1.2	2.3	3.0	3.0	3.2
<u>Figures Smaller</u>	41.8	-8.4*	1.3	4.7*	1.4	2.6*	-2.4*	-21.0*	4.1*	-10.3*	-13.5*	-3.1	8.5*	-19.4*	-4.1	3.6*	-1.6	-11.0*	11.7*	5.4
Standard error	1.3	2.0	2.3	2.2	1.9	1.2	1.1	2.2	0.8	4.5	4.5	1.8	1.6	4.3	3.2	1.7	2.4	4.8	3.4	4.6
<u>Figures overlapping objects</u>	18.0	-3.1	1.1	0.1	1.7	1.3	-1.2	-4.6*	4.1*	-4.9	-4.7	0.4	0.9	-5.3*	19.2*	3.5*	0.2	-0.5	2.1	1.0
Standard error	1.5	1.9	2.2	1.8	2.6	0.8	0.7	2.0	0.4	3.7	3.7	2.2	1.2	2.1	1.7	1.7	2.3	4.2	2.9	2.5
<u>Point Perspective</u>	1.5	0.4	-0.1	0.7	-6.9*	0.5	-0.3	-1.4*	0.2	0.0	-1.5*	0.1	0.2	-1.3*	1.3	-0.5	0.0	-0.4	1.5*	0.3
Standard error	0.3	0.6	0.5	0.6	0.1	0.2	0.2	0.3	0.1	1.1	0.5	0.1	0.4	0.4	1.2	0.4	0.6	0.9	1.6	0.8
<u>Figures overlapping figures</u>	0.8	-0.1	-0.1	0.1	-0.3	0.2	-0.2	-0.3	0.2*	-0.1	-1.5	-0.5	0.2	-0.6	0.7*	0.2	-0.2	-0.4	0.1	0.7
Standard error	0.2	0.3	0.3	0.4	0.4	0.2	0.2	0.3	0.1	0.7	1.5	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.5	0.9

*Tends to a significant difference from the nation.

TABLE 10. Running Person: Percentage of Students With Acceptable Scores of at Least Five Points

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main City	Urban Fringe	High Metro
Age 9	20.7	-5.1*	-1.8	2.7	3.0	4.6*	-4.5*	-11.2*	2.9*	-10.0*	-0.6	-0.1	6.2*	-12.9*	-4.2	-0.4	0.1	-2.7	3.6	8.7*
Standard error	1.1	1.6	1.9	1.9	1.7	0.9	0.9	1.7	0.5	3.6	4.0	1.7	1.3	2.2	2.9	1.6	2.0	2.7	2.8	3.5
Age 15	38.5	-11.4*	3.6	4.2*	2.0	2.3*	-2.3	-13.9*	2.3*	-10.6	-8.9*	-2.1	7.4*	-7.0*	-2.3	0.2	-3.2	-3.2	7.9	6.3
Standard error	1.4	2.3	2.1	2.1	2.6	1.1	1.1	2.9	0.7	5.4	3.1	1.5	1.2	3.0	4.4	1.7	2.4	4.5	4.6	5.8

*Tends to a significant difference from the nation.

TABLE 11. Running Person: Percentage of Students Showing Motion With Legs

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro	
No Legs Shown																					
Age 9	1.8	-0.2	0.8	0.4	-0.9	0.0	0.0	3.5*	-0.7*	-1.5*	-0.8	-0.1	-0.5	0.5	0.1	-0.4	-0.5	1.9	-0.7	1.9	
Standard error	0.4	0.6	0.9	0.6	0.5	0.3	0.3	1.3	0.5	0.4	0.8	0.7	0.4	1.0	0.8	0.5	0.7	1.7	0.7	1.2	
Age 13	3.0	1.1	-0.5	0.2	-0.7	0.3	-0.3	2.6	0.5	0.7	0.1	-1.1	0.2	1.6	0.6	-0.4	1.7	-2.0*	-0.8	0.5	
Standard error	0.4	1.0	0.7	0.6	0.7	0.4	0.4	1.3	0.5	1.5	1.2	0.6	0.4	1.3	1.2	0.5	1.6	0.6	1.0	1.0	
No Motion, Legs Straight, Unbent																					
Age 9	15.5	5.0*	-2.4	-3.9*	2.0	-0.8	0.8	7.0*	-1.3*	4.9	1	2.2	-2.7*	0.0	-1					-1.9	
Standard error	0.8	1.4	1.2	1.2	1.5	0.9	0.9	2.1	0.1	3	1	1.8	1.2	4.3	2					5.2	
Age 13	6.8	1.9	0.4	-2.3*	0.4	0.2	-0.2	4.1*	-0.9*	7.9	1	-0.5	-1.2	1.1	-1.9			0.8	4.1	-1.2	-2.4
Standard error	0.7	1.3	1.3	0.9	1.2	0.6	0.5	1.8	0.5	5.7	1.9	0.8	0.7	2.2	1.4	0.9	1.6	2.6	1.8	1.4	1.4
Scissor Position, But Unbent																					
Age 9	49.5	-2.2	3.6	0.3	-1.7	0.1	-0.1	-4.4	0.7	5.5	0.4	2.6	-3.6*	6.1	9.1*	1.7	-1.2	-4.4	-4.5*	-7.6*	
Standard error	1.3	2.3	2.2	2.4	2.0	1.6	1.6	2.7	0.6	4.7	5.6	2.2	1.8	4.2	3.5	1.5	2.7	3.4	2.0	3.3	
Age 13	24.4	4.6	-0.8	-2.0	-1.1	0.0	0.3	-6.2*	-1.0*	4.7	9.3*	-1.2*	1.9	5.0	8.7*	-0.5	-1.1	2.1	-3.9	-3.1	
Standard error	1.1	2.8	1.5	1.7	1.7	1.0	1.0	2.2	0.4	3.3	3.7	1.6	1.5	3.5	3.0	1.3	1.8	4.6	2.2	3.0	
Legs Parallel as in Jumping																					
Age 9	26.5	-3.8	-1.3	3.6	0.5	-1.1	1.1	-4.2	1.2	-10.6*	-8.8*	-4.4*	6.8*	-1.8*	-5.7*	-1.1	0.1	3.6	2.4	9.3*	
Standard error	1.2	2.5	2.5	1.9	1.6	1.1	1.1	2.7	0.6	3.2	3.4	1.9	1.6	3.4	2.7	1.5	2.9	2.4	2.2	3.4	
Age 13	44.2	-5.4*	1.1	2.1	1.1	-3.0*	2.8	-9.8*	2.1*	-9.2	-5.8	2.5	0.9	-7.4*	-7.9*	1.8	0.2	-5.7	3.8	3.4	
Standard error	1.1	2.4	2.2	1.4	1.6	1.5	1.1	2.6	0.5	5.7	3.4	1.5	1.5	3.6	3.3	1.3	3.0	3.3	3.5	2.6	
Both Legs Bent																					
Age 9	2.6	0.4	-0.7	-1.0	1.3	-0.3	0.3	-0.2	0.1	0.3	0.1	0.4	0.0	-1.4*	-0.5	0.0	-0.2	1.2	0.7	-0.4	
Standard error	0.4	0.6	0.7	0.5	0.7	0.4	0.4	0.8	0.2	2.0	1.6	0.7	0.5	0.5	1.6	0.5	0.8	1.3	0.9	1.0	
Age 13	8.6	-1.0	-0.4	0.0	1.3	0.2	-0.2	-3.3*	0.9*	-4.7*	-1.9	1.9	0.8	1.5	-0.6	-0.5	-2.5	2.5	1.5	0.4	
Standard error	0.7	1.2	1.3	1.1	1.2	0.6	0.6	1.3	0.3	1.6	1.6	1.2	0.8	2.3	2.3	0.9	1.6	2.6	2.4	2.0	
Both Legs Bent and Running																					
Age 9	2.9	0.2	-0.5	0.8	-0.5	1.6*	-1.6*	-1.8*	0.5	-0.4	0.2	0.0	0.7	-1.7	-0.3	0.7	-0.3	-1.3	-0.1	0.4	
Standard error	0.6	0.7	0.7	1.3	0.8	0.6	0.6	0.8	0.2	1.8	1.2	0.7	0.7	0.9	1.3	0.9	1.1	3.2	1.0	1.2	
Age 13	11.2	-2.1	-0.7	2.7*	-0.4	2.3*	-2.2*	-1.5	0.0	-4.8*	-3.9	-1.3	2.5*	-2.5	-1.1	-0.5	0.4	-0.1	0.5	2.9	
Standard error	0.8	1.3	1.7	1.0	1.3	0.9	0.9	1.8	0.5	2.2	2.1	1.3	0.9	2.0	2.3	0.8	1.7	2.1	2.6	2.0	

*Deviation of at least 2.0 percentage points from the national mean.

TABLE 12. Running Person: Percentage of Students Showing Motion With Arms

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro	
No Arms																					
Age 9	3.0	1.7*	1.0	-0.2	-2.0*	0.5	-0.5	5.0*	-0.9*	-0.2	0.8	-0.4	-0.3	2.7	0.9	-0.2	0.6	-1.6*	0.1	-1.8*	
Standard error	0.4	0.7	0.9	0.6	0.5	0.3	0.3	1.4	0.3	1.8	1.7	0.7	0.5	1.6	1.2	0.5	1.0	0.8	1.1	0.7	
Age 13	2.8	0.8	-0.6	1.0*	-1.3*	-0.1	0.1	1.3	-0.2	0.5	3.7*	0.7	-1.1*	1.2	1.3	0.3	0.0	-1.7*	-0.7	-0.3	
Standard error	0.3	0.7	0.6	0.5	0.5	0.4	0.4	1.0	0.2	1.2	1.5	0.5	0.4	1.2	1.0	0.5	1.0	0.6	0.9	1.1	
Arms Appear Limp																					
Age 9	7.8	0.3	-1.2	1.0	-0.2	-0.6	0.6	5.1*	-1.1*	5.6	3.2	1.2	-1.6	4.5	-0.1	1.2	-2.2	0.8	-0.8	-2.0	
Standard error	0.7	1.2	1.2	1.2	1.1	0.6	0.6	1.3	0.3	3.7	2.9	1.2	0.9	2.5	1.7	0.9	1.5	2.2	1.5	1.5	
Age 13	6.8	4.1*	0.0	-3.0*	-0.3	-1.1	1.1	3.9*	-0.7*	9.2*	1.4	-0.7	-1.3*	0.4	3.1	0.3	3.6*	-4.2*	-3.1*	-1.2	
Standard error	0.7	1.4	1.3	0.9	1.1	0.8	0.7	1.6	0.4	4.0	2.4	0.8	0.5	1.7	1.8	0.8	1.3	1.1	1.4	1.4	
Parallel Arms, Bent																					
Age 9	84.1	-3.3	-0.4	-1.0	4.0*	-2.6*	2.6*	-9.3*	2.0*	-5.3	-2.8	-1.1	2.0	-6.6	2.3	-1.0	-0.3	0.4	2.4	1.7	
Standard error	1.0	1.9	2.1	1.4	1.5	0.8	0.8	2.4	0.5	4.4	3.4	1.7	1.2	3.5	1.6	1.2	2.1	3.9	2.4	3.0	
Age 13	77.9	-2.8	-2.6	3.3*	1.3	-1.0	0.9	-2.5	1.0	-10.1*	-3.2	0.4	1.4	0.6	-4.6	1.3	-1.3	6.1*	-1.4	-3.6	
Standard error	1.0	2.1	1.9	1.4	1.5	0.9	0.8	2.2	0.5	4.0	3.2	1.1	1.0	2.9	2.4	1.4	1.8	2.9	2.9	2.5	
Both Arms Bent: One Forward, One to the Back																					
Age 9	-3.8	0.7	0.1	0.4	-1.0	2.3*	-2.2*	-1.0	0.3	-2.0*	-2.1	1.0	0.7	0.0	-2.1*	0.3	0.0*	-1.8	-1.0	3.4	
Standard error	0.5	0.9	0.8	0.8	0.9	0.4	0.4	1.0	0.2	1.3	1.2	1.0	0.6	2.2	0.9	0.6	1.0	1.3	0.9	2.0	
Age 13	10.8	-3.0*	2.3	-0.6	1.2	2.4*	-2.3*	-4.4*	0.6	-5.0*	-4.3*	-0.2	2.3*	-2.8	-2.1	-1.3	-2.9*	0.6	5.2*	6.8*	
Standard error	0.8	1.1	1.9	1.1	1.1	0.8	0.7	1.5	0.3	2.3	1.6	1.0	0.8	2.9	2.1	0.9	1.1	2.1	2.4	2.8	

*Denotes a significant difference from the nation.

TABLE 13. Running Person: Percentage of Students Showing Motion With Body

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low Metro	Extreme Rural	Small Places	Medium City	Main Big City	Urban Fringe	High Metro
No Body Shown																				
Age 9	1.2	-0.4	0.4	-0.1	0.1	0.2	-0.2	3.0*	-0.5*	-0.8	-0.2	0.1	-0.3	3.6*	-0.3	-0.6*	-0.4	0.6	0.3	0.3
Standard error	0.2	0.5	0.5	0.3	0.4	0.2	0.2	0.9	0.2	0.5	0.8	0.5	0.3	1.2	0.5	0.2	0.4	1.0	0.8	0.5
Age 13	1.5	-0.4	0.5	0.2	-0.3	-0.2	0.2	0.3	-0.1	0.9	-0.4	0.6	-0.4	-0.1	-1.0*	0.5	-0.6	-1.1*	1.0	-0.4
Standard error	0.3	0.4	0.5	0.4	0.4	0.3	0.2	0.7	0.1	1.3	0.8	0.5	0.3	0.8	0.4	0.3	0.5	0.4	0.9	0.7
Body Erect																				
Age 9	72.1	5.7*	-0.7	-3.3*	-0.7	-4.2*	4.1*	4.7	-1.4*	12.1*	0.9	1.7	-5.1*	1.4	0.4	2.4	-1.9	0.2	0.9	-7.3*
Standard error	0.9	1.7	1.6	1.3	1.7	0.9	0.9	2.4	0.5	4.2	4.3	2.1	1.4	4.5	3.0	1.4	1.9	2.5	3.2	3.4
Age 13	71.9	8.6*	-7.6*	-1.3	1.1	-2.4*	2.3*	6.6*	-0.3	-2.3	2.3	2.8	-3.5*	4.9	0.7	0.3	0.0	0.5	-5.9	2.5
Standard error	1.4	2.1*	2.5	2.2	2.4	1.0	1.0	2.6	0.7	6.4	3.2	1.7	-1.6	3.7	5.0	1.6	3.1	4.2	3.6	3.3
Body Leaning as in Motion																				
Age 9	25.3	-5.8*	-0.2	3.7*	1.2	-3.6*	-3.5*	-7.8*	2.2*	-13.1*	-1.6	-1.2	6.1*	-4.4	0.8	-1.4	0.3	-3.0	-0.6	8.3*
Standard error	1.0	1.8	1.8	1.5	1.9	0.9	0.9	2.1	0.5	3.9	3.9	2.1	1.4	3.9	3.0	1.5	2.3	3.5	3.4	3.5
Age 13	24.9	-9.1*	6.3*	1.8	0.1	2.8*	-2.6*	-9.6*	1.0	-4.0	-4.2	-3.1	5.3*	-5.4	-1.9	-0.7	0.1	1.3	4.9	-0.4
Standard error	1.3	2.1	2.2	2.2	2.4	1.0	1.0	2.5	0.7	6.3	2.8	1.6	1.6	3.1	4.1	1.6	3.4	4.5	3.7	3.4

*Denotes a significant difference from the nation.

TABLE 14. Running Person: Percentage of Students Showing Motion With Expressive Devices

	National	South-east	West	Central	North-east	Male	Female	Black	White	No High School	Some High School	Graduated High School	Post High School	Low SES	Extreme Rural	Small City	Medium City	Main Big City	Urban Fringe	High Metro
No Expressive Devices Present																				
Age 9	62.1	9.3*	-1.4	1.1	-7.4*	-5.1*	5.0*	16.1*	-2.8*	4.5	6.1	1.3	-5.7*	12.9*	8.5	3.4	-4.3	-3.4	-9.0*	-4.7
Standard error	1.3	1.7	2.2	2.5	2.3	1.0	0.9	2.4	0.7	4.9	6.1	2.3	1.6	4.8	5.9	2.2	3.0	4.7	3.4	3.9
Age 13	43.6	6.4*	-1.2	-2.1	-2.3	-1.2	1.1	11.7*	-1.9*	3.5	7.2	-0.9	-3.0*	3.5	1.6	1.1	3.5	-3.4	-0.5	-8.4*
Standard error	1.2	2.3	2.1	1.6	2.3	1.2	1.2	3.2	0.7	5.8	4.5	1.7	1.1	4.3	4.4	1.6	3.5	3.1	4.1	2.7
One Expressive Device Used																				
Age 9	29.2	-7.5*	-0.7	0.7	6.0*	4.5*	-4.4*	-11.1*	2.0*	-4.0	-2.4	-2.1	4.5*	-8.6*	-6.4	-3.3	2.4	-1.3	8.3*	7.4*
Standard error	1.2	1.9	1.7	2.2	2.1	1.1	1.0	2.1	0.6	4.3	4.2	2.0	1.7	4.1	4.4	1.9	3.0	3.8	2.7	3.1
Age 13	38.1	-2.9	1.3	1.9	-0.9	0.8	-0.7	-5.9*	1.2*	-5.8	-4.8	2.2	0.2	-0.3	1.8	-1.8	-0.6	5.9	-2.7	4.6
Standard error	1.1	2.0	2.0	1.8	2.0	1.2	1.2	2.9	0.5	5.9	4.2	1.6	1.3	3.4	4.4	1.3	3.1	4.1	2.6	3.0
Two Expressive Devices Used																				
Age 9	6.5	-2.1*	0.9	-1.5	2.5*	0.2	-0.2	-4.2*	0.8*	-1.4	-2.5	1.4	1.8*	-2.8	-0.2	0.3	-0.7	2.0	1.6	-1.8
Standard error	0.6	0.8	1.1	0.9	1.1	0.5	0.5	0.9	0.2	2.5	1.7	1.1	0.9	1.6	2.4	0.7	1.0	2.2	1.9	1.3
Age 13	14.7	-3.2*	-1.4	0.4	3.8	0.5	-0.5	-6.6*	1.4*	-3.9	-3.9	0.7	4.0*	-3.7	-4.3*	0.7	-2.9	-1.1	3.3	3.7
Standard error	1.1	1.5	1.9	1.6	2.2	0.9	0.9	1.6	0.4	3.9	2.3	1.5	1.3	2.5	2.1	1.2	2.3	3.5	3.6	2.9
Three or More Expressive Devices Used																				
Age 9	0.9	-0.3	0.8	0.0	-0.4	-0.1	0.1	-0.9*	0.2*	-0.9*	3.9*	-0.1	0.1	-0.9*	-0.9*	-0.1	0.6	0.5	-0.3	0.5
Standard error	0.2	0.4	0.6	0.3	0.3	0.2	0.2	0.2	0.1	0.2	2.8	0.3	0.3	0.2	0.2	0.3	0.5	0.8	0.4	0.7
Age 13	1.8	-1.2*	0.3	0.4	0.3	0.0	0.0	-0.9	-0.1	0.7	-0.8	-0.4	0.1	-0.1	-1.3*	0.1	-0.5	-0.5	-0.1	1.9
Standard error	0.4	0.4	0.8	0.5	0.6	0.4	0.3	0.6	0.2	1.6	0.6	0.4	0.3	1.0	0.5	0.5	0.6	0.8	0.8	1.8

*Denotes significant difference from the nation.



TABLE 15. Percentage of Students Successfully Completing Drawings Within Each Background-Information Category

	National	Do Art				Art Taught		Art Museum			Learn Art (Classes)			
		None	1-2	3-4	5-10	Yes	No	Never	Once	5 or More	None	1	2-3	4-6
Age 17														
Bedroom	61.2	55.8	59.0	61.8	65.3	62.4	35.2	49.6	60.4	65.6	52.3	54.2	64.6	72.7
Standard error	1.5	3.6	2.2	2.2	2.7	1.5	6.6	3.0	2.4	2.1	3.0	3.4	2.1	3.2
Table	50.9	40.1	47.4	52.7	60.2	51.3	40.5	46.4	45.8	56.1	45.2	50.3	52.3	56.5
Standard error	1.6	3.1	2.2	2.2	2.6	1.6	8.7	2.9	2.6	2.1	2.6	2.7	1.8	4.2
Age 13														
Bedroom	54.9	51.2	49.4	55.7	57.7	55.6	44.8	49.6	56.6	56.8	49.8	54.1	58.3	
Standard error	1.6	6.6	2.6	2.5	2.0	1.6	7.3	2.8	2.2	2.4	2.7	2.7	2.3	
Table	41.9	26.6	37.5	38.8	48.9	42.4	35.3	35.4	43.3	45.4	38.3	40.0	46.0	
Standard error	1.4	5.2	2.6	1.9	2.3	1.4	3.5	2.1	2.3	2.3	2.2	2.3	2.0	
Running person	38.3	36.6	35.8	38.2	39.9	38.1	41.0	35.3	36.2	41.6	35.3	35.9	41.6	
Standard error	1.4	4.8	2.5	1.9	1.9	1.4	7.3	2.5	2.2	1.7	2.8	1.6	2.3	
Age 9														
Bedroom	39.9	35.2	39.9	47.1		40.6	27.5	34.9	41.7	43.3				
Standard error	1.7	2.1	2.2	2.6		1.7	7.8	2.4	2.2	2.5				
Table	22.9	14.3	23.0	32.9		23.4	16.4	19.3	26.1	24.5				
Standard error	1.1	1.3	1.8	2.3		1.2	3.0	1.5	1.8	2.3				
Running person	20.7	13.8	22.3	26.9		20.8	20.0	20.1	20.2	22.3				
Standard error	1.1	1.4	1.9	2.0		1.2	2.8	1.4	2.1	1.9				
Playground	42.6	35.1	43.0	51.0		42.9	38.1	42.6	42.0	43.2				
Standard error	1.3	1.7	1.9	2.3		1.3	2.5	1.9	2.4	2.0				

APPENDIX B
BACKGROUND QUESTIONS

DO ART

9-Year-Olds

Outside of school, what kinds of art work do you do?
Tell whether you do each of the following things.

A. Outside of school, do you draw?

- Yes
- No
- I don't know.

B. Outside of school, do you paint?

- Yes
- No
- I don't know.

C. Outside of school, do you make collages by cutting and pasting paper, cloth and scrap materials?

- Yes
- No
- I don't know.

D. Outside of school, do you carve or make models with wood, stone, clay, metal or plastic?

- Yes
- No
- I don't know.

DO ART

13- and 17-Year-Olds

Outside of school, what kinds of art work do you do?
Tell whether you do each of the following things outside of school.

	Yes	No	I don't know.
A. Drawing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. Painting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. Making pictures by cutting and pasting paper, cloth and scrap materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. Carving or modeling in wood, stone, clay, metal or plastic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. Print-making such as block printing, silk screening, etching	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. Making pottery, ceramics or mosaics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
G. Weaving, macramé or knotting, or needlework such as embroidery, needlepoint, knitting, crocheting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
H. Making photographs or films	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I. Making jewelry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
J. Creating designs or plans for things like clothes, toys, cars, houses, furniture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

ART TAUGHT IN THE SCHOOL

9-, 13- and 17-Year-Olds In School

Principals in each of the participating schools were asked the following question:

Is art taught in your school?

- Yes
- No

ATTEND ART CLASS

13-Year-Olds

A. Did you take an art class in school last year?

- Yes No I don't know.

B. Are you taking an art class during this school year?

- Yes No I don't know.

NOTE: Nine-year-olds were not asked this question.

ATTEND ART CLASS

17-Year-Olds

A. Please indicate in which of the following years you took art classes in school.

Table with 3 columns: Yes, No, I don't know. Rows: Seventh grade, Eighth grade, Ninth grade, Tenth grade.

Eleventh grade Twelfth grade

B. Are you currently enrolled in art class?

- Yes No I don't know.

VISIT ART MUSEUMS

9-, 13- and 17-Year-Olds in School

A. The works of artists are shown in art museums and art galleries. How often have you visited art museums or art galleries?

- Never One time About five times About ten times Fifteen or more times



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of the Education Commission of the States

of New Mexico, Chairman, Education Commission of the States
Executive Director, Education Commission of the States
by H. Forbes, Director, National Assessment

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