

ALGEBRA 1

Chapter 1, Section 6

Tables and Graphs

VOCABULARY:

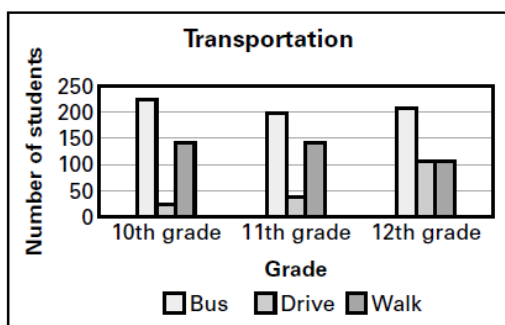
<ul style="list-style-type: none"> • Data –
<ul style="list-style-type: none"> • Bar Graph –
<ul style="list-style-type: none"> • Line Graph –

GOAL:

- Use tables to organize data.
- Use graphs to organize data.

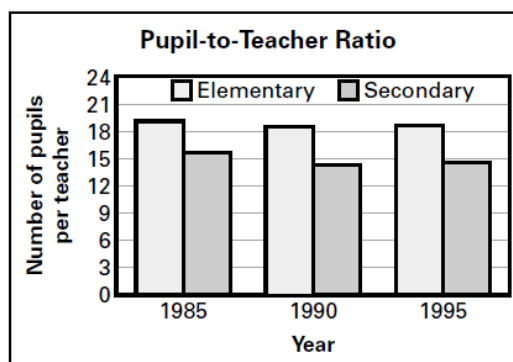
BAR Graphs:

Transportation In Exercises 1–3, use the bar graph, which shows the type of transportation students used to go to school at Adams High School in a recent year.



1. Which class has the most students driving to school?
2. Which two classes have the same number of students walking to school?
3. What is the most common form of transportation among 10th graders?

Ratios In Exercises 4–6, use the bar graph, which shows the pupil-to-teacher ratio for public schools in 1985, 1990, and 1995.



4. Which year had the highest pupil-to-teacher ratio for elementary schools?
5. What was the approximate pupil-to-teacher ratio for secondary schools in 1995?
6. Which pupil-to-teacher ratio had the largest overall decrease from 1985 through 1990?

Data Tables:

Schools In Exercises 7–9, use the following information, which represents the fall enrollment of students (in millions) in grades K–8 for public and private schools.

Year	1980	1985	1990	1995
Public school	27.6	27.0	29.9	32.4
Private school	4.0	4.2	4.1	4.4

7. How many students were enrolled in public schools in 1985?
8. What year had the fewest total students enrolled?
9. Construct a bar graph of the combined enrollment for public and private schools.

Business The following information represents a company's revenue and expenses (in thousands of dollars) for six months.

Month	July	Aug.	Sept.	Oct.	Nov.	Dec.
Revenue	48	39	36	42	57	62
Expenses	38	58	54	48	37	51

10. In what month were the expenses the greatest?
11. Profit is the difference of revenue and expenses. What was the company's profit in November?
12. Construct a line graph of the company's revenue.

Lines Graphs:

Life Expectancy In Exercises 13–15, use the line graph, which gives the life expectancy in the United States for a child (at birth).

13. In which decade did life expectancy increase the least?
14. In which decade did life expectancy increase the most?
15. Discuss what the line graph shows.

