



Name _____ Date _____

Bar Graphs and Histograms

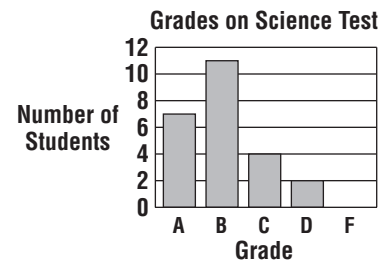
(Pages 142–146)

Statistics involves collecting, organizing, and analyzing data. You can display data with a **bar graph** or a **histogram**. A histogram uses bars to display numerical data organized into equal intervals.

EXAMPLE

In the bar graph shown at the right, how many students made a grade of A on the science test? How many made an F?

The bar for a grade of A ends halfway between 6 and 8 on the vertical axis. So 7 students made an A. Categories that have a frequency of 0 have no bar. Since the category for F has no bar, there were 0 students who made an F.



Try These Together

1. Refer to the histogram in Exercise 3. How many presidents were between the ages of 40 and 44 when inaugurated?

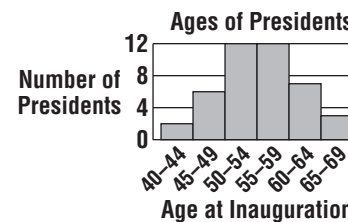
HINT: What is the height of the bar for the interval 40–44?

2. Refer to the histogram in Exercise 3. How large is each interval?

HINT: Count the number of ages each interval contains.

PRACTICE

3. Use the histogram at the right to answer each question.
 - a. Which interval has the least number of presidents?
 - b. Construct a frequency table from the data.



4. **Genealogy** Annabeth surveyed her class to find out how many siblings they each had. The results of her survey are shown in the table. Make a bar graph of the data.

Siblings	1	2	3	4	5
Students	10	6	4	1	1



5. **Standardized Test Practice** Refer to the bar graph of test grades in the example above. Which grade was earned by the greatest number of students?

A A

B B

C C

D D

Answers: 1. 2 2. 5 years 3a. 40–44 3b. See Answer Key. 4. See Answer Key. 5. B