

Name \_\_\_\_\_ Date \_\_\_\_\_

# Mean, Median, and Mode (pages 71–75)

One number used to represent an entire set of data is called a **measure of central tendency**. Three common measures of central tendency are the **mean**, the **median**, and the **mode**. The mean is also called the average.

<b>Finding the Mean</b>	Add to find the sum. Divide by the number of pieces of data.
<b>Finding the Median</b>	Arrange the data in order. Find the middle number (or the mean of the two middle numbers).
<b>Finding the Mode</b>	Look for the data item that appears most often. There may be more than one mode, or no mode.

## EXAMPLES

**A** Find the mean of this set of data.

10, 13, 6, 7, 14, 28, 34, 5, 22, 11

The sum of the data is 150. There are 10 pieces of data. Divide 150 by 10 to get a mean of 15.

**B** For the data in Example A, what is the median?

The data in order are: 5, 6, 7, 10, 11, 13, 14, 22, 28, 34. There are two middle numbers, 11 and 13. The mean of 11 and 13 is  $24 \div 2$  or 12. The median of this data is 12.

## Try These Together

1. In Example A, is the mean a number in the data set? is the median?

*HINT: Is the mean of 15 one of the numbers listed in the set of data? is the median of 12?*

2. For the data in Example A, what is the mode?

*HINT: Each number in the data set appears only once. No number is the most common.*

## PRACTICE

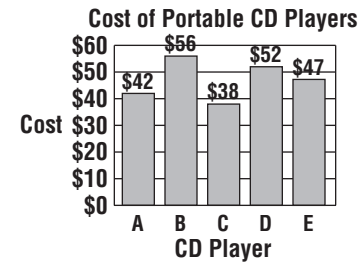
**Find the mean, median, and mode for each set of data.**

3. 10, 14, 18, 23, 10

4. 36, 24, 21, 58, 21

5. 22, 23, 29, 28, 24, 24

6. **Money Matters** Alicia is saving money for a portable CD player. The graph shows the costs of different CD players. What is the mean cost of the CD players?



7. **Standardized Test Practice** What is the median of the set of data in the table?

**A** 54

**B** 62

**C** 58

**D** 67

School	Number of Students on Sports Teams
Blake	56
Irondale	68
River Trail	101
Jefferson	43

**Answers:** 1. no, no 2. There is no mode. 3. mean = 15, median = 14, mode = 10 4. mean = 32, median = 24, mode = 21 5. mean = 25, median = 24, mode = 24 6. \$47 7. B