

# **SKILL 12:** Finding a Percent of a Number

To find a percent of a number, you can use a proportion, or you can write the percent as a decimal and multiply.

# **Example**

#### Find 22% of 83.

Proportion Method

Write a proportion. Then find the cross products and solve for x.

part 
$$\rightarrow \frac{x}{83} = \frac{22}{100}$$
 Write the percent as a fraction over 100.

$$100x = 1826$$

$$x = 1826 \div 100$$

$$x = 18.26$$

Equation Method

Change the percent to a decimal and multiply.

## **Guided Practice**

# Find 6% of 30 using the indicated method.

1. Write a proportion.

$$\frac{x}{30} = \frac{6}{100}$$

$$100x =$$
\_\_\_\_\_

2. Write an equation.

$$6\% \text{ of } 30 = \_\_\_ \times 30$$

# Find the percent of each number.

$$0.25 \times 84 =$$

$$0.1 \times 7 =$$

$$0.042 \times 50 =$$

 $0.6 \times 45 =$ 

5. 91% of 37

8. 75% of 160

\_\_\_\_ × \_\_\_ = \_\_\_

91% of 37 = \_\_\_\_\_

**6.** 60% of 45

## **SKILL 12: Practice**

# Find the percent of each number.

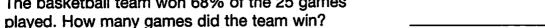
4. 
$$33\frac{1}{3}\%$$
 of  $123 =$ \_\_\_\_\_

## Solve each problem. Try to find a pattern.

#### Solve.

23. Of the 50 students in Class A, 48% are boys. How many of the students are boys?

24. The basketball team won 68% of the 25 games





25. Find 25% of 120.

Skill 12 C 480

**D** 30

26. Which is the cross product

of 
$$\frac{4}{12} = \frac{6}{18}$$
?

Skill 5

**H** 216

G 42

J 72