



## 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  $x$ .

$$\begin{array}{l} \text{part} \quad \rightarrow \quad \frac{x}{83} = \frac{22}{100} \quad \leftarrow \text{Write the} \\ \text{whole} \quad \rightarrow \quad \frac{22}{100} \quad \text{percent as} \end{array}$$

a fraction  
over 100.

$$100x = 1826$$

$$x = 1826 \div 100$$

$$x = 18.26$$

22% of 83 is 18.26.

#### Equation Method

Change the percent to a decimal and multiply.

$$22\% \text{ of } 83 = 0.22 \times 83$$

$$= 18.26$$

22% of 83 is 18.26.

### Guided Practice

**Find 6% of 30 using the indicated method.**

1. Write a proportion.

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

$$100x = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

$$6\% \text{ of } 30 = \underline{\hspace{2cm}}$$

2. Write an equation.

$$6\% \text{ of } 30 = \underline{\hspace{1cm}} \times 30$$

$$= \underline{\hspace{2cm}}$$

$$6\% \text{ of } 30 = \underline{\hspace{2cm}}$$

**Find the percent of each number.**

3. 25% of 84

$$0.25 \times 84 = \underline{\hspace{2cm}}$$

$$25\% \text{ of } 84 = \underline{\hspace{2cm}}$$

4. 10% of 7

$$0.1 \times 7 = \underline{\hspace{2cm}}$$

$$10\% \text{ of } 7 = \underline{\hspace{2cm}}$$

5. 91% of 37

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

$$91\% \text{ of } 37 = \underline{\hspace{2cm}}$$

6. 60% of 45

$$0.6 \times 45 = \underline{\hspace{2cm}}$$

$$60\% \text{ of } 45 = \underline{\hspace{2cm}}$$

7. 4.2% of 50

$$0.042 \times 50 = \underline{\hspace{2cm}}$$

$$4.2\% \text{ of } 50 = \underline{\hspace{2cm}}$$

8. 75% of 160

$$\underline{\hspace{1cm}} \times 160 = \underline{\hspace{2cm}}$$

$$75\% \text{ of } 160 = \underline{\hspace{2cm}}$$