



SKILL 17: Finding the Percent

You can write a percent proportion to find what percent one number is of another.

Example

6 is what percent of 15?

Write a proportion. *Think:* 6 out of 15 is equal to what percent?

$$\begin{array}{l} \text{part} \rightarrow \frac{6}{15} = \frac{x}{100} \leftarrow \begin{array}{l} \% \text{ part} \\ \text{Find the missing value.} \end{array} \\ \text{whole} \rightarrow \end{array}$$

Write the cross products.

$$15x = 6 \times 100$$

$$15x = 600$$

Divide by 15.

$$x = 600 \div 15$$

$$x = 40$$

$$\frac{6}{15} = \frac{40}{100}$$

$$\begin{array}{r} 40 \\ 15 \overline{)600} \\ \underline{60} \\ 00 \end{array}$$

~~$\frac{6}{15} = \frac{x}{100}$~~
 mul
 ce
 then divide
 by odd m

So, 6 is 40% of 15.

Guided Practice

Complete the steps to answer each question.

1. What percent of 20 is 7?

a. *Think:* 7 out of 20 is equal to what percent? Write a proportion:

$$\frac{x}{100} = \frac{\square}{\square} \begin{array}{l} \text{part} \\ \text{whole} \end{array}$$

~~$\frac{x}{100} = \frac{\square}{\square}$~~
 multiply
 divide
 odd m

b. Write the cross products. _____ = _____

c. Divide to undo the multiplication.

$$x = 700 \div 20$$

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

7 is _____% of 20.

2. 15 is what percent of 75?

a. _____ out of _____ = what percent?

$$\frac{15}{\square} = \frac{x}{100} \begin{array}{l} \% \text{ part} \\ \% \text{ whole} \end{array}$$

c. 15 is _____% of 75.

3. Find what percent 60 is of 25.

a. _____ out of _____ = what percent?

$$\frac{\square}{25} = \frac{x}{100}$$

c. 60 is _____% of 25.