



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?

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

Write the cross products.

$$15x = 6 \times 100$$

$$15x = 600$$

Divide by 15.

$$x = 600 \div 15$$

$$x = 40$$

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

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

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:

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

b. Write the cross products.

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

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?

$$\text{b. } \frac{15}{\square} = \frac{x}{100}$$

c. 15 is _____% of 75.

3. Find what percent 60 is of 25.

a. _____ out of _____ = what percent?

$$\text{b. } \frac{\square}{25} = \frac{x}{100}$$

c. 60 is _____% of 25.

L 17: Practice**Find each answer.**

- | | |
|--|--|
| 1. 20 is what percent of 25?
_____ | 2. Find what percent 12 is of 16.
_____ |
| 3. 21 is what percent of 35?
_____ | 4. Find what percent 4 is of 80.
_____ |
| 5. What percent of 88 is 66?
_____ | 6. 15 is what percent of 50?
_____ |
| 7. What percent of 300 is 450?
_____ | 8. Find what percent 0.12 is of 48.
_____ |
| 9. Find what percent 35 is of 20.
_____ | 10. Find what percent 30 is of 15.
_____ |
| 11. 10.4 is what percent of 40?
_____ | 12. What percent of 20 is 16.6?
_____ |

Solve each problem. Use the table.

13. What percent of the 40 girls preferred the Prime Numbers? _____
14. What percent of the 40 girls were undecided? _____
15. Which group was the most popular? _____

Favorite Music Groups (40 girls surveyed)	
Prime Numbers	12 girls
Acute Angles	$\frac{1}{4}$ of the girls
Square Roots	35% of the girls
Undecided	4 girls



16. 9 is what percent of 20?

A 22.2% C 45
B 45% D 4.5%

Skill 17

17. Find 60% of 92.

F $153\frac{1}{3}$ H 552
G 5.52 J 55.2

Skill 12