

The Percent Proportion

To solve a percent problem using a proportion, set up a ratio showing part to the whole and a ratio showing the percent.

$$\frac{\textit{part}}{\textit{whole}} = \frac{\%}{100}$$

Three types of problems:

1. When you are looking for the PERCENT:

What percent of 8 is 2?

$$\frac{2}{8} = \frac{x}{100}$$

2. When you are looking for the PART:

3. What number is 20% of 64?

$$\frac{20}{100} = \frac{x}{64}$$

4. When you are looking for the WHOLE:

5. 5 is 30% of what number?

$$\frac{30}{100} = \frac{5}{x}$$

Lesson 3 Skills Practice

The Percent Proportion

Find each number. Round to the nearest tenth if necessary.

1. 50 is 20% of what number?
2. What percent of 20 is 4?
3. What number is 70% of 250?
4. 10 is 5% of what number?
5. What number is 45% of 180?
6. 40% of what number is 82?
7. What percent of 90 is 36?
8. 60 is 25% of what number?
9. What number is 32% of 1,000?
10. What percent of 125 is 5?
11. 73 is 20% of what number?
12. 57% of 109 is what number?
13. What percent of 185 is 35?
14. 25 is what percent of 365?
15. 85% of 190 is what number?
16. 12.5 is 25% of what number?
17. What percent of 128 is 24?
18. 5.25% of 170 is what number?
19. What is 82% of 230?
20. What percent of 49 is 7?