7-5 Study Guide and Intervention

Using Percent Equations

Percent Equations A **percent equation** is an equivalent form of a percent proportion. In a percent equation, the percent is written as a decimal.

Example Solve each problem using a percent equation.

a. Find 22% of 95.

$n = 0.22(95)$

$n = 20.9$

So, 22% of 95 is 20.9.

b. 15 is what percent of 75?

$15 = n(75)$

$0.2 = n$

So, 15 is 20% of 75.

c. 90 is 20% of what number?

$90 = 0.2n$

$450 = n$

So, 90 is 20% of 450.

Exercises

Solve each problem using a percent equation.

1. Find 76% of 25.

2. Find 9% of 410.

3. Find 40% of 7.

4. Find 26% of 505.

5. Find 3.5% of 280.

6. Find 18.5% of 60.

7. Find 107% of 1080.

8. 256 is what percent of 800?

9. 36 is what percent of 240?

10. 2089.5 is what percent of 2100?

11. 15.4 is what percent of 55?

12. 7 is what percent of 350?

13. 13.2 is what percent of 80?

14. 14.4 is what percent of 120?

15. 36 is 9% of what number?

16. 2925 is 39% of what number?

17. 576 is 90% of what number?

18. 24.2 is 55% of what number?

19. 25 is 125% of what number?

20. 0.6 is 7.5% of what number?

Lesson 7-5