

Homework Practice

Algebra: The Percent Proportion and Equation

Solve each problem using a percent proportion.

1. 6 is what percent of 24?

$$\frac{6}{24} = \frac{x}{100} \quad \boxed{25\%}$$

2. 125 is what percent of 375?

$$\frac{125}{375} = \frac{x}{100} \quad \boxed{33.3\%}$$

3. What is 20% of 80?

$$\frac{x}{80} = \frac{20}{100} \quad \boxed{16}$$

4. What is 14% of 440?

$$\frac{x}{440} = \frac{14}{100} \quad \boxed{61.6}$$

5. 28 is 35% of what number?

$$\frac{28}{x} = \frac{35}{100} \quad \boxed{80}$$

6. 63 is 63% of what number?

$$\frac{63}{x} = \frac{63}{100} \quad \boxed{100}$$

- 7.
- GAMES**
- Before discarding, Carolee has 4 green cards, 3 red cards, 3 orange cards, and 1 gold card. If she discards the gold card, what percent of her remaining cards are red?

Total cards - gold

$$\frac{3}{11} = \frac{x}{100}$$

$$\approx 27\%$$

Solve each problem using a percent equation.

8. 4% of what number is 7?

$$7 = 0.04x \quad \boxed{175}$$

9. 85 is 10% of what number?

$$85 = 0.1x \quad \boxed{850}$$

10. Find
- $3\frac{1}{2}\%$
- of 250.

$$x = 0.035(250) \quad \boxed{8.75}$$

11. What is
- $7\frac{1}{4}\%$
- of 56?

$$x = 0.0725(56) \quad \boxed{4.06}$$

12. 560 is what percent of 420?

$$\frac{560}{420} = \frac{x(420)}{420} \quad \boxed{133.3\%}$$

- 13.
- $2\frac{1}{5}\%$
- of what number is 44?

$$\frac{44}{0.022} = \frac{0.022x}{0.022} \quad \boxed{2000}$$

- 14.
- MUSIC**
- In a recent survey, 47% of teens said they use the Internet to download music. If there were 300 teens surveyed, how many use the Internet to download music?

$$x = 0.47(300) \quad \boxed{141}$$