Proportions

Proportions are two ratios that are equal to each other.

$$\frac{1}{2} = \frac{3}{6} = \frac{8}{16} = \frac{}{24}$$

Directions: Solve each proportion.

1. $\dfrac{3}{7} = \dfrac{x}{28}$

2. $\dfrac{4}{15} = \dfrac{6}{x}$

3. $\dfrac{x-20}{5} = 6$

4. $\dfrac{18}{57} = \dfrac{x}{19}$

5. $\dfrac{6}{3-x} = \dfrac{2}{7}$

6. If six bracelets cost $15.50, what is the cost of 9 bracelets?

7. Faith is making chocolate chip cookies. The recipe requires $\frac{2}{3}$ cup of brown sugar to make 12 cookies.
   How much brown sugar will she need if she wants to make 20 cookies?

8. A map has a scale of 1:40 (1 inch = 40 feet). If the distance between two points on a map is $3\frac{1}{2}$ inches,
   what is the actual distance?

9. Jennifer can run one lap around the track in 4 minutes and 20 seconds. How many laps can she run in 10 minutes?

10. Maria earns $68 for 8 hours of work. How much does she earn for 30 hours of work at the same rate?