

Reteaching 6-2 Proportions

Solve $\frac{x}{6} = \frac{10}{4}$

Method 1: Multiplication
Property of Equality

$$\frac{x}{6} = \frac{10}{4}$$

$$\frac{x}{6} \cdot 6 = \frac{10}{4} \cdot 6 \quad \text{Multiply each side by 6.}$$

$$x = \frac{60}{4} \quad \text{Simplify.}$$

$$x = 15$$

Method 2: cross products

$$\frac{x}{6} \times \frac{10}{4}$$

$$4x = 60 \quad \text{Find the cross products.}$$

$$\frac{4x}{4} = \frac{60}{4} \quad \text{Divide each side by 4.}$$

$$x = 15 \quad \text{Simplify.}$$

Solve each proportion. When necessary, round to the nearest hundredth.

1. $\frac{6}{p} = \frac{18}{42}$

2. $\frac{12}{21} = \frac{x}{14}$

3. $\frac{y}{9} = \frac{26}{6}$

4. $\frac{x}{9} = \frac{7}{12}$

5. $\frac{63}{t} = \frac{14}{16}$

6. $\frac{28}{15} = \frac{y}{25}$

7. $\frac{7}{20} = \frac{e}{70}$

8. $\frac{8}{3} = \frac{40}{k}$

9. $\frac{m}{54} = \frac{5}{12}$

10. $\frac{8}{w} = \frac{5}{24}$

11. $\frac{63}{18} = \frac{14}{z}$

12. $\frac{a}{70} = \frac{2}{5}$

13. $\frac{5}{13} = \frac{20}{r}$

14. $\frac{6}{t} = \frac{7}{56}$

15. $\frac{c}{21} = \frac{6}{20}$

16. $\frac{10}{e} = \frac{15}{27}$
