



## Solving Proportions

Solve each proportion.

Examples:

$$\frac{5}{7} = \frac{35}{n}$$

*(Diagram: A circular arrow from 5 to 35 is labeled 'x7'. A circular arrow from 7 to n is labeled 'x7'.)*

$$n = 49$$

$$\frac{14}{16} = \frac{y}{40}$$

*(Diagram: A circular arrow from 14 to y is labeled 'x5'. A circular arrow from 16 to 40 is labeled 'x5'.)*

$$y = 35$$

$$\frac{3}{4} = \frac{5}{m}$$

*(Diagram: Blue arrows cross from 3 to m and from 4 to 5.)*

$$3m = 4 \cdot 5$$

$$3m = 20$$

$$\frac{3m}{3} = \frac{20}{3}$$

$$m = 6\frac{2}{3}$$

1.  $\frac{n}{9} = \frac{2}{3}$

2.  $\frac{3}{5} = \frac{n}{20}$

3.  $\frac{2}{7} = \frac{6}{n}$

4.  $\frac{3}{n} = \frac{6}{10}$

5.  $\frac{n}{11} = \frac{12}{33}$

6.  $\frac{21}{r} = \frac{3}{8}$

7.  $\frac{8}{3} = \frac{24}{m}$

8.  $\frac{n}{16} = \frac{3}{4}$

9.  $\frac{7}{8} = \frac{56}{v}$

10.  $\frac{14}{28} = \frac{21}{x}$

11.  $\frac{4}{10} = \frac{6}{y}$

12.  $\frac{3}{75} = \frac{2}{y}$

13.  $\frac{5}{t} = \frac{2}{3}$

14.  $\frac{4}{5} = \frac{7}{n}$

15.  $\frac{5}{6} = \frac{x}{9}$