

Name: _____

Date: _____

Key

Solving Proportions

Solve each proportion.

1. $\frac{3}{8} = \frac{m}{16}$

$$\frac{8m}{8} = \frac{48}{8}$$

$$m = 6$$

2. $\frac{9}{4} = \frac{27}{x}$

$$\frac{9x}{9} = \frac{108}{9}$$

$$x = 12$$

3. $\frac{18}{6} = \frac{j}{1}$

$$\frac{6j}{6} = \frac{18}{6}$$

$$j = 3$$

4. $\frac{b}{18} = \frac{7}{6}$

$$\frac{6b}{6} = \frac{126}{6}$$

$$b = 21$$

5. $\frac{12}{q} = \frac{3}{4}$

$$\frac{3q}{3} = \frac{48}{3}$$

$$q = 16$$

6. $\frac{3}{2} = \frac{15}{r}$

$$\frac{3r}{3} = \frac{30}{3}$$

$$r = 10$$

7. $\frac{5}{x} = \frac{25}{15}$

$$\frac{25x}{25} = \frac{75}{25}$$

$$x = 3$$

8. $\frac{80}{20} = \frac{4}{n}$

$$\frac{80n}{80} = \frac{80}{80}$$

$$n = 1$$

9. $\frac{4}{5} = \frac{b}{40}$

$$\frac{5b}{5} = \frac{160}{5}$$

$$b = 32$$

10. $\frac{8}{12} = \frac{e}{3}$

$$\frac{12e}{12} = \frac{24}{12}$$

$$e = 2$$

11. 5 is to 8 as
15 is to w

$$\frac{5}{8} = \frac{15}{w}$$

$$\frac{5w}{5} = \frac{120}{5}$$

$$w = 24$$

12. 14 is to b
as 28 is to 18

$$\frac{14}{b} = \frac{28}{18}$$

$$\frac{28b}{28} = \frac{252}{28}$$

$$b = 9$$