

Unit 1.5 Examples of Solving Proportions

Period _____

Solve each proportion. Show some using the cross product rule.

1) $\frac{7}{4} = \frac{x}{7}$

2) $\frac{7}{m} = \frac{8}{3}$

3) $\frac{7}{10} = \frac{3}{p}$

4) $\frac{3}{7} = \frac{n}{2}$

5) $\frac{5}{10} = \frac{9}{n}$

6) $\frac{6}{6r} = \frac{2}{7}$

7) $\frac{8}{9} = \frac{9}{b}$

8) $\frac{9}{2} = \frac{4}{x}$

9) $\frac{b}{6} = \frac{8}{7}$

10) $\frac{10}{8} = \frac{k}{5}$

11) $\frac{5}{7} = \frac{n-5}{5}$

12) $\frac{5}{v+10} = \frac{9}{10}$

13) $\frac{4}{6} = \frac{9}{x-2}$

14) $\frac{v-3}{8} = \frac{9}{3}$

15) $\frac{8}{n+4} = \frac{9}{3}$

16) $\frac{8}{5} = \frac{2}{v-8}$

Solve each proportion.

17) $\frac{9}{7} = \frac{n+9}{5}$

18) $\frac{4}{3} = \frac{k+1}{2}$

19) $\frac{5}{x+7} = \frac{2}{x-3}$

20) $\frac{3}{b+1} = \frac{9}{b-6}$

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Period _____

Solve each proportion. Show some using the cross product rule.

1) $\frac{7}{4} = \frac{x}{7}$

$$\left\{ \frac{49}{4} \right\}$$

2) $\frac{7}{m} = \frac{8}{3}$

$$\left\{ \frac{21}{8} \right\}$$

3) $\frac{7}{10} = \frac{3}{p}$

$$\left\{ \frac{30}{7} \right\}$$

4) $\frac{3}{7} = \frac{n}{2}$

$$\left\{ \frac{6}{7} \right\}$$

5) $\frac{5}{10} = \frac{9}{n}$

$$\{18\}$$

6) $\frac{6}{6r} = \frac{2}{7}$

$$\left\{ \frac{7}{2} \right\}$$

7) $\frac{8}{9} = \frac{9}{b}$

$$\left\{ \frac{81}{8} \right\}$$

8) $\frac{9}{2} = \frac{4}{x}$

$$\left\{ \frac{8}{9} \right\}$$

9) $\frac{b}{6} = \frac{8}{7}$

$$\left\{ \frac{48}{7} \right\}$$

10) $\frac{10}{8} = \frac{k}{5}$

$$\left\{ \frac{25}{4} \right\}$$

11) $\frac{5}{7} = \frac{n-5}{5}$

$\left\{ \frac{60}{7} \right\}$

12) $\frac{5}{v+10} = \frac{9}{10}$

$\left\{ -\frac{40}{9} \right\}$

13) $\frac{4}{6} = \frac{9}{x-2}$

$\left\{ \frac{31}{2} \right\}$

14) $\frac{v-3}{8} = \frac{9}{3}$

$\{27\}$

15) $\frac{8}{n+4} = \frac{9}{3}$

$\left\{ -\frac{4}{3} \right\}$

16) $\frac{8}{5} = \frac{2}{v-8}$

$\left\{ \frac{37}{4} \right\}$

Solve each proportion.

17) $\frac{9}{7} = \frac{n+9}{5}$

$\{-2.57\}$

18) $\frac{4}{3} = \frac{k+1}{2}$

$\{1.67\}$

19) $\frac{5}{x+7} = \frac{2}{x-3}$

$\{9.67\}$

20) $\frac{3}{b+1} = \frac{9}{b-6}$

$\{-4.5\}$