

## Proportions

Date \_\_\_\_\_ Period \_\_\_\_\_

**State if each pair of ratios forms a proportion.**

1)  $\frac{4}{2}$  and  $\frac{20}{6}$

2)  $\frac{3}{2}$  and  $\frac{18}{8}$

3)  $\frac{4}{3}$  and  $\frac{16}{12}$

4)  $\frac{4}{3}$  and  $\frac{8}{6}$

5)  $\frac{12}{24}$  and  $\frac{3}{4}$

6)  $\frac{6}{9}$  and  $\frac{2}{3}$

**Solve each proportion.**

7)  $\frac{10}{k} = \frac{8}{4}$

8)  $\frac{m}{10} = \frac{10}{3}$

9)  $\frac{2}{x} = \frac{7}{9}$

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

$$11) \frac{4}{9} = \frac{2}{x}$$

$$12) \frac{6}{a} = \frac{3}{8}$$

$$13) \frac{8n}{8} = \frac{8}{3}$$

$$14) \frac{7}{9} = \frac{a}{5}$$

$$15) \frac{p}{8} = \frac{13}{2}$$

$$16) \frac{3}{13} = \frac{v}{3}$$

$$17) \frac{10}{12} = \frac{2}{n}$$

$$18) \frac{11}{10} = \frac{r}{11}$$

$$19) \frac{x}{9} = \frac{7}{14}$$

$$20) \frac{a}{10} = \frac{11}{14}$$

$$21) \frac{v}{12} = \frac{10}{2}$$

$$22) \frac{6}{14} = \frac{5}{n}$$

## Proportions

State if each pair of ratios forms a proportion.

1)  $\frac{4}{2}$  and  $\frac{20}{6}$

No

2)  $\frac{3}{2}$  and  $\frac{18}{8}$

No

3)  $\frac{4}{3}$  and  $\frac{16}{12}$

Yes

4)  $\frac{4}{3}$  and  $\frac{8}{6}$

Yes

5)  $\frac{12}{24}$  and  $\frac{3}{4}$

No

6)  $\frac{6}{9}$  and  $\frac{2}{3}$

Yes

Solve each proportion.

7)  $\frac{10}{k} = \frac{8}{4}$

{5}

8)  $\frac{m}{10} = \frac{10}{3}$

{33.33}

9)  $\frac{2}{x} = \frac{7}{9}$

{2.57}

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

{4.28}

$$11) \frac{4}{9} = \frac{2}{x}$$

{4.5}

$$12) \frac{6}{a} = \frac{3}{8}$$

{16}

$$13) \frac{8n}{8} = \frac{8}{3}$$

{2.66}

$$14) \frac{7}{9} = \frac{a}{5}$$

{3.88}

$$15) \frac{p}{8} = \frac{13}{2}$$

{52}

$$16) \frac{3}{13} = \frac{v}{3}$$

{0.69}

$$17) \frac{10}{12} = \frac{2}{n}$$

{2.4}

$$18) \frac{11}{10} = \frac{r}{11}$$

{12.1}

$$19) \frac{x}{9} = \frac{7}{14}$$

{4.5}

$$20) \frac{a}{10} = \frac{11}{14}$$

{7.85}

$$21) \frac{v}{12} = \frac{10}{2}$$

{60}

$$22) \frac{6}{14} = \frac{5}{n}$$

{11.66}