

# Lesson 6 Skills Practice

## Solve Proportional Relationships

Determine whether each pair of ratios form a proportion.

1.  $\frac{5}{8}, \frac{2}{3}$  **no**

2.  $\frac{7}{3}, \frac{14}{6}$  **yes**

3.  $\frac{6}{8}, \frac{9}{12}$  **yes**

4.  $\frac{16}{9}, \frac{11}{6}$  **no**

5.  $\frac{55}{10}, \frac{12}{2}$  **no**

6.  $\frac{6}{8}, \frac{15}{20}$  **yes**

7.  $\frac{5}{9}, \frac{15}{27}$  **yes**

8.  $\frac{3}{18}, \frac{11}{66}$  **yes**

9.  $\frac{7}{11}, \frac{15}{23}$  **no**

10.  $\frac{9}{13}, \frac{13}{17}$  **no**

11.  $\frac{3}{42}, \frac{5}{70}$  **yes**

12.  $\frac{6}{7}, \frac{36}{49}$  **no**

Solve each proportion.

13.  $\frac{4}{12} = \frac{y}{9}$  **3**

14.  $\frac{6}{18} = \frac{4}{c}$  **12**

15.  $\frac{7}{z} = \frac{84}{12}$  **1**

16.  $\frac{5}{10} = \frac{8}{w}$  **16**

17.  $\frac{x}{9} = \frac{4}{15}$  **2.4**

18.  $\frac{6}{20} = \frac{y}{5}$  **1.5**

19.  $\frac{5}{9} = \frac{6}{r}$  **10.8**

20.  $\frac{8}{n} = \frac{10}{7}$  **5.6**

21.  $\frac{d}{5} = \frac{12}{80}$  **0.75**

22.  $\frac{y}{5} = \frac{13}{10}$  **6.5**

23.  $\frac{2}{28} = \frac{p}{35}$  **2.5**

24.  $\frac{11}{t} = \frac{100}{11}$  **1.21**

25.  $\frac{1.2}{m} = \frac{3}{5}$  **2**

26.  $\frac{0.9}{0.5} = \frac{a}{10}$  **18**

27.  $\frac{3}{7} = \frac{k}{4.2}$  **1.8**

28.  $\frac{6.3}{x} = \frac{18}{5}$  **1.75**

29.  $\frac{3.6}{9} = \frac{b}{0.5}$  **0.2**

30.  $\frac{14}{1.5} = \frac{4.2}{y}$  **0.45**