

## Practice 6-2 Proportions

Write a proportion for each phrase. Then solve. When necessary, round to the nearest hundredth.

1. 420 ft<sup>2</sup> painted in 36 min;  $f$  ft<sup>2</sup> painted in 30 min

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2. 75 points scored in 6 games;  $p$  points scored in 4 games

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3. 6 apples for \$1.00; 15 apples for  $d$  dollars

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Tell whether each pair of ratios forms a proportion.

4.  $\frac{3}{4}$  and  $\frac{9}{12}$  \_\_\_\_\_

5.  $\frac{25}{40}$  and  $\frac{5}{8}$  \_\_\_\_\_

6.  $\frac{8}{12}$  and  $\frac{14}{21}$  \_\_\_\_\_

7.  $\frac{13}{15}$  and  $\frac{4}{5}$  \_\_\_\_\_

8.  $\frac{4}{5}$  and  $\frac{5}{6}$  \_\_\_\_\_

9.  $\frac{49}{21}$  and  $\frac{28}{12}$  \_\_\_\_\_

Solve each proportion. Where necessary, round to the nearest tenth.

10.  $\frac{3}{5} = \frac{15}{x}$  \_\_\_\_\_

11.  $\frac{15}{30} = \frac{n}{34}$  \_\_\_\_\_

12.  $\frac{h}{36} = \frac{21}{27}$  \_\_\_\_\_

13.  $\frac{11}{6} = \frac{f}{60}$  \_\_\_\_\_

14.  $\frac{26}{15} = \frac{130}{m}$  \_\_\_\_\_

15.  $\frac{36}{j} = \frac{7}{20}$  \_\_\_\_\_

16.  $\frac{r}{23} = \frac{17}{34}$  \_\_\_\_\_

17.  $\frac{77}{93} = \frac{x}{24}$  \_\_\_\_\_

18. At Discount Copy, 12 copies cost \$0.66. Melissa needs 56 copies. How much should they cost?

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19. You estimate that you can do 12 math problems in 45 min. How long should it take you to do 20 math problems?

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