

Practice 6-2 Proportions

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

1. 420 ft² painted in 36 min; f ft² painted in 30 min

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

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

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?

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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