

# Practice 5-3

## Proportions

Determine if the ratios in each pair are proportional.

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|---|--|--|
| 1. $\frac{12}{16}, \frac{30}{40}$ _____ | 2. $\frac{8}{12}, \frac{15}{21}$ _____ | 3. $\frac{27}{21}, \frac{81}{56}$ _____  |
| 4. $\frac{45}{24}, \frac{75}{40}$ _____ | 5. $\frac{5}{9}, \frac{80}{117}$ _____ | 6. $\frac{15}{25}, \frac{75}{125}$ _____ |
| 7. $\frac{2}{14}, \frac{20}{35}$ _____  | 8. $\frac{9}{6}, \frac{21}{14}$ _____  | 9. $\frac{24}{15}, \frac{16}{10}$ _____  |
| 10. $\frac{3}{4}, \frac{8}{10}$ _____   | 11. $\frac{20}{4}, \frac{17}{3}$ _____ | 12. $\frac{25}{6}, \frac{9}{8}$ _____    |

Decide if each pair of ratios is proportional.

- |  |   |
|--|---|
| 13. $\frac{14}{10} \stackrel{?}{=} \frac{9}{7}$<br>_____   | 14. $\frac{18}{8} \stackrel{?}{=} \frac{36}{16}$<br>_____ |
| 15. $\frac{6}{10} \stackrel{?}{=} \frac{15}{25}$<br>_____  | 16. $\frac{7}{16} \stackrel{?}{=} \frac{4}{9}$<br>_____   |
| 17. $\frac{6}{4} \stackrel{?}{=} \frac{12}{8}$<br>_____    | 18. $\frac{19}{3} \stackrel{?}{=} \frac{114}{8}$<br>_____ |
| 19. $\frac{5}{14} \stackrel{?}{=} \frac{6}{15}$<br>_____   | 20. $\frac{6}{27} \stackrel{?}{=} \frac{8}{36}$<br>_____  |
| 21. $\frac{27}{15} \stackrel{?}{=} \frac{45}{25}$<br>_____ | 22. $\frac{3}{18} \stackrel{?}{=} \frac{4}{20}$<br>_____  |
| 23. $\frac{5}{2} \stackrel{?}{=} \frac{15}{6}$<br>_____    | 24. $\frac{20}{15} \stackrel{?}{=} \frac{4}{3}$<br>_____  |

Solve.

25. During the breaststroke competitions of the 1992 Olympics, Nelson Diebel swam 100 meters in 62 seconds, and Mike Bowerman swam 200 meters in 130 seconds. Are the rates proportional?  
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26. During a vacation, the Vasquez family traveled 174 miles in 3 hours on Monday, and 290 miles in 5 hours on Tuesday. Are the rates proportional?  
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