

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.

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

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?

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?
