

EXERCISES

Determine whether the ratios are proportional (equivalent).

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|------------------------------------|-------------------------------------|----------------------------------|------------------------------------|--|--------------------------------------|
| 1. $\frac{2}{3}, \frac{8}{12}$ | 2. $\frac{4}{5}, \frac{18}{24}$ | 3. $\frac{4}{15}, \frac{8}{30}$ | 4. $\frac{7}{9}, \frac{14}{18}$ | 5. $\frac{3}{2}, \frac{12}{7}$ | 6. $\frac{11}{4}, \frac{5}{2}$ |
| 7. $\frac{2}{9}, \frac{10}{45}$ | 8. $\frac{9}{15}, \frac{4}{5}$ | 9. $\frac{7}{8}, \frac{14}{17}$ | 10. $\frac{14}{9}, \frac{5}{3}$ | 11. $\frac{12}{15}, \frac{4}{5}$ | 12. $\frac{12}{120}, \frac{2}{20}$ |
| 13. $\frac{2}{1.5}, \frac{8}{6}$ | 14. $\frac{1.2}{5}, \frac{6}{25}$ | 15. $\frac{2.4}{7}, \frac{3}{5}$ | 16. $\frac{3}{4}, \frac{3.6}{4.8}$ | 17. $\frac{1.2}{3.5}, \frac{3.6}{9.5}$ | 18. $\frac{7}{8.5}, \frac{2.8}{3.4}$ |
| 19. $\frac{3}{1.2}, \frac{9}{3.5}$ | 20. $\frac{2.1}{5}, \frac{8.4}{20}$ | | | | |

Solve each proportion.

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| 21. $\frac{n}{5} = \frac{3}{15}$ | 22. $\frac{2}{15} = \frac{n}{45}$ | 23. $\frac{5}{7} = \frac{x}{21}$ | 24. $\frac{x}{9} = \frac{12}{27}$ | 25. $\frac{y}{12} = \frac{1}{2}$ | 26. $\frac{7}{8} = \frac{y}{24}$ |
| 27. $\frac{k}{4} = \frac{12}{16}$ | 28. $\frac{4}{k} = \frac{16}{12}$ | 29. $\frac{1}{3} = \frac{14}{n}$ | 30. $\frac{7}{n} = \frac{21}{15}$ | 31. $\frac{6}{7} = \frac{p}{21}$ | 32. $\frac{r}{18} = \frac{5}{6}$ |
| 33. $\frac{x}{2} = \frac{7}{5}$ | 34. $\frac{4}{x} = \frac{2}{3}$ | 35. $\frac{4}{5} = \frac{y}{7}$ | 36. $\frac{m}{4} = \frac{8}{5}$ | 37. $\frac{4}{25} = \frac{n}{26}$ | 38. $\frac{5}{p} = \frac{2}{9}$ |
| 39. $\frac{n}{1.4} = \frac{6}{7}$ | 40. $\frac{1.2}{x} = \frac{9}{1.5}$ | | | | |

41. If 2 pounds of beef cost \$5.60, how much do 5 pounds cost ?
42. If 2 pounds of beef cost \$5.60, how many pounds can you buy for \$14 ?
43. Bob earns \$25 for 3 hours of cleaning floor. How many hours must he work to earn \$125 ?
44. A picture 12 by 15 cm is enlarged to 20 by x cm. What is the length of x ?
45. A paper 11 by 8.5 in. is reduced by a copying machine. If the reduced paper is 8.8 in. long, what is its width ?
46. The length and the width of a rectangular field are 1.2 by 0.5 meters on a map. What is the actual width if the actual length is 120 meters ?
47. A bus traveled 320 miles in 5 hours. How far would it travel at the same speed in 8 hours ?
48. A bus uses 4.5 gallons of gasoline to travel 75 miles. How many gallons would the bus use to travel 90 miles ?
49. Bob saves \$5 out of every \$20 he earns. He earns \$820 a month. How much does he save a year.
50. A map of 2.2 inches represents 250 miles. How many inches would represent 450 miles ?