Name _____ Class _____ Date _____

Practice 5-4

Solving Proportions

Solve each proportion.

1. $\frac{3}{8} = \frac{m}{16}$ _____ **2.** $\frac{9}{4} = \frac{27}{x}$ _____ **3.** $\frac{18}{6} = \frac{j}{1}$ _____ **4.** $\frac{b}{18} = \frac{7}{6}$ _____

5. $\frac{12}{q} = \frac{3}{4}$ _____ **6.** $\frac{3}{2} = \frac{15}{r}$ _____ **7.** $\frac{5}{x} = \frac{25}{15}$ _____ **8.** $\frac{80}{20} = \frac{4}{n}$ _____

Estimate the solution of each proportion.

9. $\frac{m}{25} = \frac{16}{98}$ _____ **10.** $\frac{7}{3} = \frac{52}{n}$ _____ **11.** $\frac{30}{5.9} = \frac{k}{10}$ _____ **12.** $\frac{2.8}{j} = \frac{1.3}{2.71}$ _____

13. $\frac{y}{12} = \frac{2.89}{4.23}$ _____ **14.** $\frac{5}{8} = \frac{b}{63}$ _____ **15.** $\frac{9}{4} = \frac{35}{d}$ _____ **16.** $\frac{c}{7} = \frac{28}{50}$ _____

Solve each proportion.

17. $\frac{4}{5} = \frac{b}{40}$ _____ **18.** $\frac{11}{7} = \frac{88}{c}$ _____ **19.** $\frac{x}{1.4} = \frac{28}{5.6}$ _____ **20.** $\frac{0.99}{a} = \frac{9}{11}$ _____

21. $\frac{42.5}{20} = \frac{x}{8}$ _____ **22.** $\frac{15}{25} = \frac{7.5}{y}$ _____ **23.** $\frac{16}{b} = \frac{56}{38.5}$ _____ **24.** $\frac{z}{54} = \frac{5}{12}$ _____

25. $\frac{8}{12} = \frac{e}{3}$ _____ **26.** $\frac{v}{35} = \frac{15}{14}$ _____ **27.** $\frac{60}{n} = \frac{12}{5}$ _____ **28.** $\frac{6}{16} = \frac{9}{w}$ _____

29. $\frac{4}{7} = \frac{r}{35}$ _____ **30.** $\frac{18}{16} = \frac{27}{t}$ _____ **31.** $\frac{n}{12} = \frac{12.5}{15}$ _____ **32.** $\frac{27}{f} = \frac{40.5}{31.5}$ _____

33. 5 is to 8 as 15 is to w _____

34. y is to 8 as 22.5 is to 10 _____

35. 14 is to b as 28 is to 18 _____

36. 10 is to 7 as m is to 10.5 _____

37. 30 is to 16 as j is to 8 _____

38. r is to 17 as 81 is to 51 _____

Write a proportion for each situation. Then solve.

39. Jaime paid $1.29 for three ponytail holders. At that rate, what would eight ponytail holders cost her?

_____

40. According to a label, there are 25 calories per serving of turkey lunch meat. How many calories are there in 2.5 servings?

_____

41. Arturo paid $8 in tax on a purchase of $200. At that rate, what would the tax be on a purchase of $150?

_____

42. Chris drove 200 mi in 4 h. At that rate, how long would it take Chris to drive 340 mi?

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