

Practice 4-3

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. $\frac{12}{q} = \frac{3}{4}$ _____

5. $\frac{3}{2} = \frac{15}{r}$ _____

6. $\frac{5}{x} = \frac{25}{15}$ _____

Estimate the solution of each proportion.

7. $\frac{m}{25} = \frac{16}{98}$ _____

8. $\frac{7}{3} = \frac{52}{n}$ _____

9. $\frac{30}{5.9} = \frac{k}{10}$ _____

10. $\frac{y}{12} = \frac{2.89}{4.23}$ _____

11. $\frac{5}{8} = \frac{b}{63}$ _____

12. $\frac{9}{4} = \frac{35}{d}$ _____

Solve each proportion.

13. $\frac{4}{5} = \frac{b}{40}$

14. $\frac{11}{7} = \frac{88}{c}$

15. $\frac{x}{1.4} = \frac{28}{5.6}$

16. $\frac{42.5}{20} = \frac{x}{8}$

17. $\frac{15}{25} = \frac{7.5}{y}$

18. $\frac{16}{b} = \frac{56}{38.5}$

19. $\frac{8}{12} = \frac{e}{3}$

20. $\frac{v}{35} = \frac{15}{14}$

21. $\frac{60}{n} = \frac{12}{5}$

22. $\frac{4}{7} = \frac{r}{35}$

23. $\frac{18}{16} = \frac{27}{t}$

24. $\frac{n}{12} = \frac{12.5}{15}$

25. 5 is to 8 as 15 is to w

26. y is to 8 as 22.5 is to 10

27. 14 is to b as 28 is to 18

28. 10 is to 7 as m is to 10.5

29. 30 is to 16 as j is to 8

30. r is to 17 as 81 is to 51

Write a proportion for each situation. Then solve.

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

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

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

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

Puzzle 4-3

Solving Proportions

Match each ratio in the table to form a proportion with one of the ratios at the bottom of the page. Put the letter from the table in the blank above the matching ratio. Correct matches will spell out the name given to the shape of a football.

Ratio	
$\frac{18}{16}$	I
$\frac{20}{26}$	R
$\frac{6}{8}$	H
$\frac{4}{18}$	E
$\frac{15}{18}$	T
$\frac{12}{20}$	S
$\frac{4}{16}$	P
$\frac{6}{9}$	E
$\frac{15}{27}$	L
$\frac{8}{10}$	A
$\frac{6}{21}$	R
$\frac{3}{10}$	P
$\frac{20}{32}$	O
$\frac{24}{22}$	D
$\frac{14}{20}$	O

- $\frac{1}{4}$ $\frac{2}{7}$ $\frac{7}{10}$ $\frac{5}{9}$ $\frac{4}{5}$ $\frac{5}{6}$ $\frac{2}{9}$ $\frac{6}{10}$ $\frac{9}{30}$ $\frac{3}{4}$ $\frac{2}{3}$ $\frac{10}{13}$ $\frac{5}{8}$ $\frac{9}{8}$ $\frac{12}{11}$

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