

CHAPTER
5

Extra Practice

Skills

● **Lesson 5-1** Write each ratio in two other ways.

1. $\frac{2}{3}$

2. 3 : 5

3. 4 to 7

4. 15 : 5

5. $\frac{25}{50}$

● **Lesson 5-2** Find each unit price. Then determine the better buy.

6. soap: 32 fl oz for \$2.29
48 fl oz for \$3.19

7. cereal: 12 oz for \$3.95
16 oz for \$4.80

8. cider: 2 pt for \$2.49
6 pt for \$7.14

9. milk: 1 gal for \$1.99
3 gal for \$5.69

10. pasta: 8 oz for \$1.29
32 oz for \$4.99

11. fish: 2 lb for \$13.98
3 lb for \$17.97

12. fabric: 3 yd for \$12.48
5 yd for \$20.30

13. rice: 2 lb for \$1.89
8 lb for \$6.79

14. juice: 2 L for \$5.99
0.5 L for \$1.25

● **Lesson 5-3** By using cross products, tell whether the ratios can form a proportion.

15. $\frac{4}{3}, \frac{12}{9}$

16. $\frac{8}{5}, \frac{11}{7}$

17. $\frac{21}{6}, \frac{7}{2}$

18. $\frac{6}{24}, \frac{2}{4}$

19. $\frac{50}{6}, \frac{3}{2}$

● **Lesson 5-4** Solve each proportion using cross products.

20. $\frac{12}{a} = \frac{3}{5}$

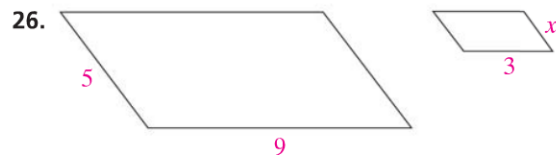
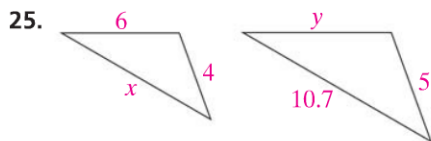
21. $\frac{n}{12} = \frac{4}{16}$

22. $\frac{7}{8} = \frac{n}{4}$

23. $\frac{7}{10} = \frac{14}{a}$

24. $\frac{7}{n} = \frac{17.5}{5}$

● **Lesson 5-5** Each pair of figures is similar. Find the value of each variable.



● **Lesson 5-6** The scale on a drawing is 0.5 in. : 15 ft. Find the actual length for each drawing length. Round to the nearest tenth, if necessary.

27. 15 in.

28. 20 in.

29. 10 in.

30. 40 in.

31. 15.5 in.

32. 1.25 in.

Word Problems

● **Lesson 5-1**

33. **Nutrition** The U.S. Department of Agriculture (USDA) recommends that no more than $\frac{3}{10}$ of your Calories come from fat. In a bowl of Tasty Crunch cereal, 15 out of 120 Calories are from fat. Is this within the USDA recommendation? Explain.