Extra Practice

Skills

● **Lesson 4-1** **Find each unit rate.**

1. 240 mi on 8 gal   **2.** $3.50 for 10 oz   **3.** 450 mi in 9 h   **4.** $18 for 12 cans

● **Lesson 4-2** **Convert each measure.**

5. 3.5 mi = ■ ft   **6.** 7.2 km = ■ m   **7.** 80 oz = ■ lb   **8.** 120 fl oz = ■ gal

● **Lesson 4-3** **Solve each proportion.**

9. $\frac{4}{7} = \frac{x}{21}$ **10.** $\frac{3}{x} = \frac{18}{9}$ **11.** $\frac{x}{10} = \frac{8}{15}$ **12.** $\frac{3}{5} = \frac{2}{x}$
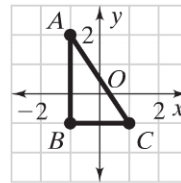
● **Lesson 4-4** **Exercises 14–16 show pairs of similar polygons. Find the unknown lengths.**

13.

14.

15.
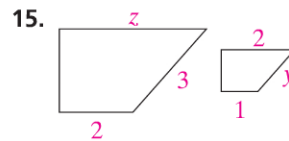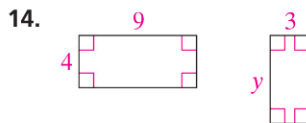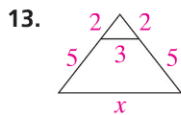
● **Lesson 4-5** **Find the image of $\triangle ABC$ at the right after a dilation with the given center and scale factor.**

16. center B, scale factor of 3

17. center A, scale factor of $\frac{1}{2}$

● **Lesson 4-6** **The scale of a map is 1 in. : 30 mi. How many actual miles does each measurement on the map represent?**

18. 3 in.   **19.** $2\frac{2}{3}$ in.   **20.** $\frac{1}{4}$ in.   **21.** 5 in.   **22.** $6\frac{1}{2}$ in.

● **Lesson 4-7**

23. A students is 5 ft tall and casts a shadow 12 ft long. A flagpole casts a shadow 25 ft long. Find the height of the flagpole to the nearest tenth.

Word Problems

● **Lesson 4-1**

24. Shampoo A 12-oz bottle of shampoo costs $3.99. A 25.4-oz bottle of the same shampoo costs $7.49. Find the unit cost of each bottle. Which bottle of shampoo is the better buy?