Name _____ Date _____ Class _____

LESSON 7-2

# Solving Problems with Proportions

## *Practice and Problem Solving: A/B*

**Find the unknown value in each proportion. Round to the nearest tenth if needed.**

1. $\frac{4}{5} = \frac{\quad}{20}$

2. $\frac{3}{7} = \frac{\quad}{35}$

3. $\frac{4}{3} = \frac{12}{\quad}$

4. $\frac{13}{15} = \frac{52}{\quad}$

**Solve using equivalent ratios.**

5. Wayne has a recipe on a 3-inch-by-5-inch index card that he wants to enlarge to 15 inches long. How wide will the enlargement be?

   _____

6. Sharon is decreasing the size of a diagram of a leaf that is 30 centimeters long by 10 centimeters wide. If the reduced diagram is 4 centimeters wide, how long will it be?

   _____

**Solve using unit rates. Round to the nearest hundredth if needed.**

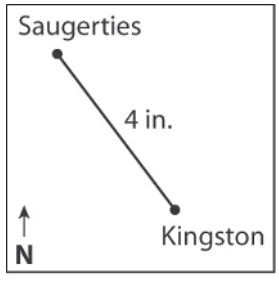
7. A wood stove burns 4 same-sized logs in 2 hours. How many logs does the stove burn in 8 hours? _____

8. In 2012, five U.S. postal stamps cost $2.20. How much did seven stamps cost? _____

9. a. What is the actual distance between Saugerties and Kingston? _____

   b. Catskill is 15 miles from Saugerties. What would the distance on the map be? _____

   c. On another map, the distance between Saugerties and Kingston is 2 inches. What would the distance from Saugerties to Catskill be on this map? _____



Scale: 1 in. = 2.5 mi.

10. The scale of a map is 1 in. : 250 miles. City A is 378 miles from City B. To the nearest tenth, how far is its distance on the map?

    _____