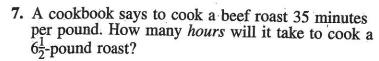
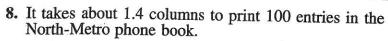
## **Questions on SPUR Objectives**

Uses Objective H: Apply the Rate Factor Model for Multiplication in real situations.

- 1. Mr. Kremers drove at an average speed of 50 miles per hour. How far did he travel in  $6\frac{1}{2}$ hours?
- 2. Ms. Grabinski drove 450 miles on 15.4 gallons of gas. Compute the mpg (miles per gallon) for her car.
- 3. If a box of cereal contains 24 servings, how many boxes are needed to serve breakfast to 130 campers?
- 4. A box of tile contains 40 pieces. Five boxes will cover 25 square feet. What area can be covered by 400 tiles?
- 5. Over a quarter-mile distance, an elephant can run at a speed of 25 miles per hour. How many miles per minute is this?
- **6.** A 120-gram serving of pudding contains 170 calories in food energy.
  - a. What is the number of calories per gram?
  - b. A person burns about 5 calories per minute of walking. How long will it take to burn off the calories from a serving of this pudding?

## ► LESSON MASTER 2-4 B page 2





- a. If there are four columns per page, how many entries are on a page?
- **b.** About how many entries are there in the 340-page North-Metro phone book?
- c. About how many pages would it take to list a quarter million entries?

## Review Objective C, Lessons 1-4 and 1-6

In 9-24, evaluate each expression when x = 4, y = 5.1, and z = 2.8.

10. 
$$x + y$$

11. 
$$\frac{21x}{7}$$

12. 
$$xy - z$$

13. 
$$y^2 - 2x$$

14. 
$$6.1x + 2.9z$$

15. 
$$(x + y)^2$$

**16.** 
$$\sqrt{x}$$

17. 
$$x^2 + y^2 + z^2$$

18. 
$$\frac{7y + 2z}{14}$$

**19.** 
$$10(3y - 4z)$$

**20.** 
$$-\sqrt{16x}$$

**21.** 
$$-x^2 - y^2$$

22. 
$$xyz - zxy$$

$$23. \ \frac{y+z}{y-z}$$

**24.** 
$$\frac{3x^2}{4} \cdot \frac{4}{3x}$$