## **Extra Practice 3**

## **Lesson 5.3: Solving Percent Problems**

- 1. Find the number in each case.
  - **a)** 30% of a number is 12.
  - **b)** 2% of a number is 9.
  - **c)** 150% of a number is 60.
  - **d)** 55% of a number is 11.
- **2.** Find the whole amount in each case.
  - a) 8% is 72 cm.
  - **b**) 0.6% is 18 g.
  - c) 120% is 24 m.
  - **d**) 32% is 64 mL.
- **3.** Write each increase as a percent.
  - a) The price of gasoline increased from 93.9¢ to 99.9¢.
  - **b)** The price of a car increased from \$32,000 to \$36,000.
  - c) The price of a loaf of bread increased from \$1.99 to \$2.49.
- **4.** Write each decrease as a percent.
  - a) The number of employees decreased from 6800 to 5200.
  - **b)** The area of a park decreased from 840 ha to 672 ha.
  - c) The price of a computer decreased from \$1500 to \$1200.
- **5.** A printing machine produces labels.

Four percent of the labels produced are defective.

Suppose 372 labels were defective.

How many labels are not defective?

**6.** A field goal kicker was successful 75% of the time.

He made 51 field goals.

How many kicks did he make in total?

7. Lesley and Enid left their waitress a 15% tip.

The tip was \$10.25.

What was their total bill, not including the tip?

**8.** Marcus collects baseball cards. At the end of 2005, he had 250 cards.

His collection increased by 12% in 2006, and by 15% in 2007.

- a) How many baseball cards did Marcus have at the end of 2007?
- **b)** Is your answer to part a the same as a 27% increase in the number of cards Marcus had at the end of 2005? Why or why not?