Practice 4-3

Proportions and Percent Equations

Solve each problem.

- 1. 25% of what is 28?
- 4. What percent of 12 is 6?
- **7.** What is 20% of 650?
- 10. What is 38% of 60?
- **13.** What percent of 210 is 10.5?
- **16.** What is 250% of 14?

- 2. What percent of 72 is 18?
- **5.** What is 60% of 12?
- **8.** What percent of 150 is 90?
- 11. 22.5% of what is 42?
- **14.** 160% of what is 124?
- **17.** What percent of 20 is 36?

- **3.** 60% of what is 45?
- **6.** 75% of what is 48?
- 9. What percent of 90 is 63?
- **12.** 45% of what is 99?
- **15.** What is 39% of 1500?
- **18.** What is 8.25% of 160?

Write an equation to model each question and solve.

- 19. Pablo has a goal to lose 25 lb. He has lost 16 lb. What percent of his goal has he reached?
- 20. You spent 16% of your vacation money on food. If you spent \$48 on food, how much money did you spend on your vacation?
- 21. A writer earns \$3400 a month. Last month she spent \$204 on food. What percent of her income was spent on food?
- 22. Kiko spends 30% of her monthly income on rent. If she pays \$810 for rent each month, what is her monthly income?
- 23. Suppose that 62.5% of freshmen entering a college graduate from it. If there are 2680 freshmen, how many will graduate from that college?

The formula for determining simple interest is I = prt. Using this formula, solve the following problems.

- 24. You invest \$1500 for three years. Find the amount of simple interest you earn at an annual rate of 8.25%.
- 25. Suppose you invested \$1200 for four years. You earned \$312 in simple interest. What is the interest rate?
- 26. Suppose you invested some money at 8% simple interest for five years. If you received \$500 in interest, how much money did you invest?

Write an equation to model each question and solve.

- **27.** What is 7% of 480?
- **30.** What is 150% of 26?
- **33.** What is 35% of 360?
- **36.** 45% of what is 36?
- **39.** 25% of what is 92?

- **28.** What percent of 80 is 48?
- **31.** 125% of what is 175?
- 34. What percent of 36 is 9?
- **37.** What is 80% of 120?
- **40.** What percent of 30 is 90?
- **29.** 90% of what is 27?
- **32.** What is 10.25% of 280?
- **35.** 75% of what is 90?
- 38. What percent of 20 is 8?
- **41.** What is 39% of 800?