

# Separate Paper

## EXERCISES

# Writing Equations Wks 4

For more practice, see Extra Practice.

### A Practice by Example

Examples 1, 2  
(pages 102, 103)

#### Need Help?

- Reread the problem.
- Identify the key facts and details.
- Tell the problem in your own words.
- Try a different strategy.
- Check your work.

### B Apply Your Skills

#### Strategies

- Draw a Diagram
- Look for a Pattern
- Make a Graph
- Make an Organized List
- Make a Table
- Simulate a Problem
- Solve a Simpler Problem
- Try, Check, and Revise
- Use Logical Reasoning
- Work Backward
- Write an Equation

Solve each problem by writing an equation. Check your answer in the original problem.

- 1. Entertainment** Lisa and Judy read mystery novels. Judy has read three fewer than five times as many as Lisa. Judy has read seventeen mysteries. How many has Lisa read?
- 2.** A pair of boots costs \$10 more than twice the cost of a pair of shoes. The boots cost \$76.50. How much do the shoes cost?
- 3. Money** You want to go to Africa for a photo safari. You need \$2,800. You can get \$1,000 from your savings and family and you can save \$30 per week. How many weeks will it take you to save up for the trip?
- 4. Movies** A movie ticket for an adult costs \$8, and a child's ticket costs \$3.50. One adult is taking a group of children to the movies. She has \$35. How many children can she take with her to the movies?
- 5.** The computer club sells 50 more than three times the number of pins the chess club sells. The computer club sells 134 pins. How many pins does the chess club sell?

Choose a strategy to solve each problem.

- 6.** The band booster and the athletic booster clubs sell tickets for a fund-raiser. The band booster club sells eight more than twice the number of tickets the athletic booster club sells. The band booster club sells 280 tickets. Find the number of tickets the athletic booster club sells.
- 7.** Ticket sales at a zoo decrease from June to December. The number of tickets sold in June is 160 more than eight times the number of tickets sold in December. The number of tickets sold in June is 80,584. Find the number of tickets sold in December.
- 8. Coins** Refer to the art at the right. A quarter weighs 5.67 grams and a dime weighs 2.268 grams. There are 100 dimes. Find the number of quarters.
- 9. Writing in Math** A gum tree reached a height of 150 ft in 15 years. Cathy and Darla write different equations to find the yearly average growth  $g$  of the tree. Cathy writes  $15g = 150$ . Darla writes  $\frac{150}{15} = g$ . Do these equations have the same solution? Explain.
- 10. Weather** As you get ready for school, the morning weather reporter says that the temperature is expected to rise by  $27^\circ\text{F}$ . The high temperature is expected to be  $55^\circ\text{F}$ . What is the temperature now?

