- - **a. Making a Table** Make a table showing possible side lengths of the closet floor and the remaining area for each side length.
  - **b. Writing an Inequality** Write an inequality to describe the situation. Use your table to find the greatest possible side length of the closet floor.
- **22.** TAKS REASONING A farmer plans to build a fence around a rectangular pen that is 16 feet long. The area of the pen is 80 square feet. Is 40 feet of fencing enough to fence in the pen? *Explain*.
- **23. CHALLENGE** You and your friend live 12 miles apart. You leave home at the same time and travel toward each other. You walk at a rate of 4 miles per hour and your friend bicycles at a rate of 11 miles per hour.
  - **a.** How long after you leave home will you meet? How far from home will each of you be?
  - **b.** Suppose your friend bicycles at a rate of 12 miles per hour. How much sooner will you meet? How far from home will each of you be?



## **MIXED REVIEW FOR TAKS**

TAKS PRACTICE at classzone.com

**REVIEW** 

Skills Review Handbook p. 924; TAKS Workbook

## **REVIEW**

Skills Review Handbook p. 924; TAKS Workbook 24. TAKS PRACTICE The figure shown is made up of a triangle and a square. Which expression gives the area of the figure? TAKS Obj. 8

**(A)** 
$$2y + \frac{xy}{2}$$

$$y^2 + \frac{x^2}{2}$$

**B** 
$$y^2 + \frac{xy}{2}$$

**D** 
$$\frac{3y^2}{2}$$

**25. TAKS PRACTICE** Suppose the perimeter of the figure shown is 24 inches and the value of x is 6 inches. Find the value of y. *TAKS Obj. 8* 

- **(F)** 3 in.
- **G** 4 in.
- **(H)** 6 in.
- (**J**) 9 in.

## **QUIZ** for Lessons 1.4–1.5

Write an equation or an inequality. (p. 21)

- 1. 4 more than twice a number n is equal to 25.
- **2.** The quotient of a number x and 2 is no more than 9.

Check whether the given number is a solution of the equation or inequality. (p. 21)

- 3. 13 2x = 5; 4
- **4.**  $5d 4 \ge 16$ ; 4
- **5.**  $4y + 3 \ge 15$ ; 3
- **6. CAR TRAVEL** One car travels about 28.5 miles on each gallon of gas. Suppose the average price of gas is \$2 per gallon. About how much would the gas for a 978 mile trip cost? (p. 28)