

45. **TAKS REASONING** You have two part-time jobs. You earn \$6 per hour running errands and \$5 per hour walking dogs. You can work a total of 10 hours this weekend and hope to earn at least \$55. Let  $r$  be the number of hours you spend running errands.
- Write an inequality that describes the situation. Your inequality should involve only one variable,  $r$ .
  - If you spend the same amount of time at each job, will you meet your goal? *Explain.*
  - Can you meet your goal by working all 10 hours at only one job? *Explain.*
46. **TAKS REASONING** Your school's service club is sponsoring a dance in the school gym to raise money for a local charity. The expenses will be \$600. The club members will sell tickets for \$10. They hope to raise enough money to cover the expenses and have enough left to donate \$1000 to the charity.
- How many tickets must they sell to cover their expenses?
  - How many tickets must they sell to cover their expenses and meet their goal?
  - The school allows no more than 200 students in the gymnasium for a dance. Can the club members sell enough tickets to exceed their goal? What is the greatest possible amount by which they can exceed their goal? *Explain* your reasoning.
47. **CHALLENGE** You and your friend are reading the same series of science fiction books. You tell your friend, "I've read 3 times as many books as you have." Your friend replies, "You've read only 4 more books than I have." How many books have each of you read?
48. **CHALLENGE** Each of the long sides of a rectangle has a length of  $x$  inches. Each of the other sides is 1 inch shorter than the long sides. The perimeter of the rectangle is 22 inches. Find the length and the width of the rectangle. *Justify* your answer.



## MIXED REVIEW FOR TAKS

**TAKS PRACTICE** at classzone.com

### Review

Lesson 1.3;  
TAKS Workbook

49. **TAKS PRACTICE** You are buying several birds and a birdcage. The birdcage costs \$25 and the birds cost \$8 each. If you have \$50 altogether to spend on the birds and the birdcage, how many birds can you buy? **TAKS Obj. 1**

(A) 2                      (B) 3                      (C) 4                      (D) 6

### Review

TAKS Preparation  
p. 622;  
TAKS Workbook

50. **TAKS PRACTICE** A rectangle has a perimeter of 40 inches and an area of 36 square inches. A similar rectangle has a perimeter of 20 inches. What is the area of the smaller rectangle? **TAKS Obj. 8**

(F) 9 in.<sup>2</sup>                      (G) 18 in.<sup>2</sup>                      (H) 20 in.<sup>2</sup>                      (J) 72 in.<sup>2</sup>

