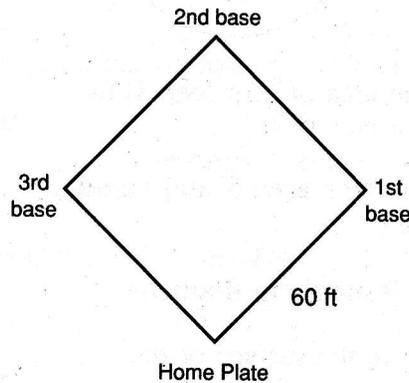


## Chapter 13 Test, Form B (page 3)

In 20–23, a. write an equation. b. Solve it to answer each question.

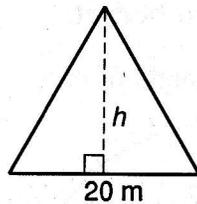
20. The base lines in a softball field are each 60 feet long and form a square. To the nearest foot, what is the straight line distance from home plate to second base? (Use  $d$  = distance.)



20. a. \_\_\_\_\_

b. \_\_\_\_\_

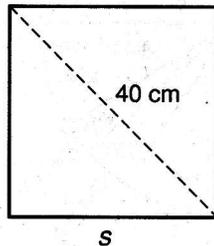
21. The area of a triangle is  $56 \text{ m}^2$  and its base is 20 m. What is the height? (Use  $h$  for height.)



21. a. \_\_\_\_\_

b. \_\_\_\_\_

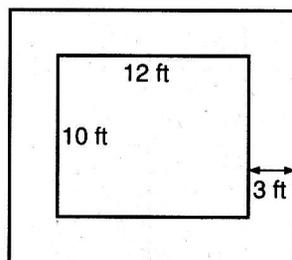
22. The diagonal of a square is 40 cm. How long is side  $s$ ?



22. a. \_\_\_\_\_

b. \_\_\_\_\_

23. A rectangular garden 10 feet by 12 feet has a walkway 3 feet wide that surrounds it. Find the area of the walkway. (Use  $A$  for area.)



23. a. \_\_\_\_\_

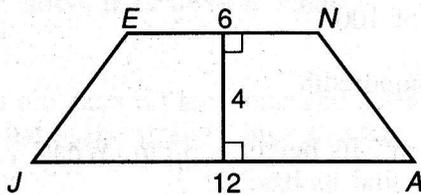
b. \_\_\_\_\_

Now check all your work carefully.

NAME \_\_\_\_\_

### Chapter 13 Test, Cumulative Form (page 2)

12. Area trapezoid  $JANE = ?$  .



12. \_\_\_\_\_

13. A basketball is about 24 cm in diameter. To the nearest tenth of a cm:

a. How much leather is needed to make the ball?

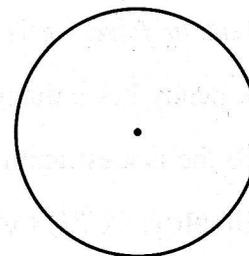
13. a. \_\_\_\_\_

b. How much air will the ball hold?

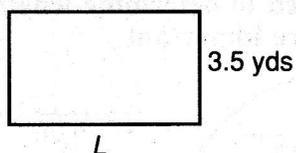
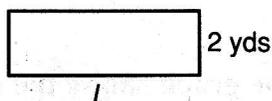
b. \_\_\_\_\_

14. In a group of 6 friends, 2 are blond, 3 are brunettes, and 1 is a redhead. Complete a circle graph showing the distribution of hair color.

14. \_\_\_\_\_



15. Refer to the rectangles pictured.



a. Write a sum to find the total area.

15. a. \_\_\_\_\_

b. Use the Distributive Property to write this sum as a product.

b. \_\_\_\_\_

16. Write  $\overline{.27}$  as a fraction in lowest terms.

16. \_\_\_\_\_

17. Solve and check:  $3y + 10 = -4y - 11$

17. \_\_\_\_\_

18. Name three points on the line  $x - 2y = 1$ .

18. \_\_\_\_\_

19. On Sid's final exam, each multiple choice question,  $m$ , is worth 2 points. Each word problem,  $w$ , is worth 5 points.

a. What linear combination gives the total score?

19. a. \_\_\_\_\_

b. If Sid got 28 multiple choice questions and 6 word problems right, what is his score?

b. \_\_\_\_\_

20. How many cubic inches in a cubic foot?

20. \_\_\_\_\_

21. Find  $x$ :  $\frac{x}{3} = \frac{5}{6}$ .

21. \_\_\_\_\_

22. Give an instance of the Commutative Property of Multiplication.

22. \_\_\_\_\_