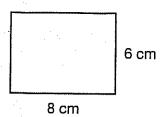
Practice

la

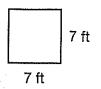
Complete the steps to find the area.

1.

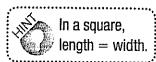


$$A = I \times w$$

2.

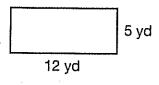


$$A = I \times w$$



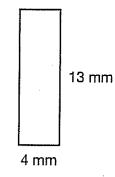
Find the area.

3.

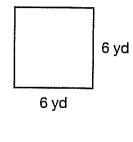


REMEMBER Area is expressed in square

4.



5.



Complete.

- 6. If the length of a rectangle is 11 centimeters and its width is 4 centimeters, its area is
- 7. If the length of a rectangle is 9 feet and its width is 8 feet, its area is
- **8.** If the side of a square is 15 inches, its area is

56= 7 xW Use fuct families to rewrite Egulation.

Find the missing measure.

9.

10.

11.

Choose the best answer.

- **12.** A rectangular tablecloth measures 5 feet by 7 feet. What is the area of the tablecloth in square inches?
 - A. 5,040 square inches
 - В. 144 square inches
 - C. 35 square inches
 - D. 24 square inches

- 13. A rectangle has an area of 80 square inches. Which of the following could not be the dimensions of the rectangle?
 - A. 4 inches by 20 inches
 - B. 5 inches by 16 inches
 - C. 6 inches by 15 inches
 - **D.** 8 inches by 10 inches

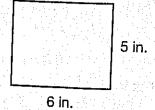
- Solve.
- 14. Fabio is putting carpet in his bedroom which measures 12 feet by 13 feet. How many square feet of carpeting does he need?
- 15. The area of a square quilt is 49 square feet. What is the length of a side of the quilt in inches?
- 16. PRINCE What will happen to the area of a rectangle if the length of the rectangle is doubled? Justify your answer.
- 17. Will Tara is arranging 16 squares of felt into rectangles. In how many different ways can she arrange the pieces of felt? Explain how you found your answer.



(iii) Applying Area

The **area** (A) of a plane figure is the number of squares having a side length of 1 unit that can completely cover the inside of the figure with no gaps or overlaps. Area is measured in **square units**. You can use a formula to find the area of a rectangle.

EXAMPLE Find the area of the rectangle shown below.



Use the formula for the area of a rectangle.

 $Area = length \times width$

 $A = I \times w$

(2)

Multiply the length times the width.

I = 6 inches and w = 5 inches

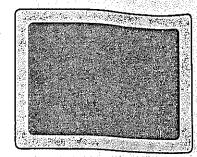
$$A = 6 \times 5$$

6 inches \times 5 inches = 30 square inches

The area of the rectangle is 30 square inches.

Problem Solving

The area of a PC tablet is 70 square inches. The length of the tablet is 10 inches. What is the width of the tablet?



PEAN

Use the formula for the area of a rectangle.

$$A = I \times w$$

SOME

$$A = I \times w$$

$$70 = 10 \times w$$

CHECK!

Check by multiplying.

$$10 \times 7 =$$

> The width of the tablet is _____ inches.