



## SKILL 7: Perimeter

The distance around the outside of a figure is known as the **perimeter**. To find the perimeter of a given geometric figure, you add the lengths of the sides.

### Example

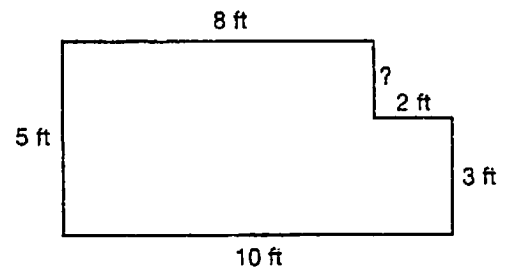
**Find the length of the unknown side. Then find the perimeter.**

In a rectangle, opposite sides are equal, so the right side is equal to the left side.

The left side is 5 ft, so the two segments on the right side also equal 5 ft. One segment is 3 ft, so, the other is  $5 - 3$ , or 2 ft.

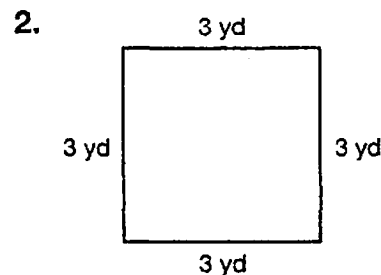
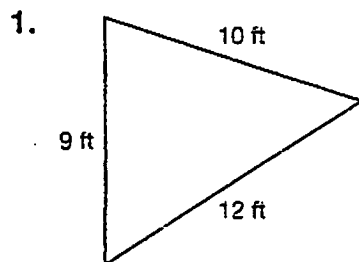
$$8 + 2 + 2 + 3 + 10 + 5 = 30$$

The perimeter is 30 feet.

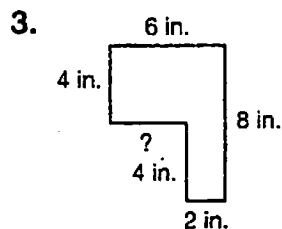


### Guided Practice

Find each perimeter by adding the lengths of the sides.



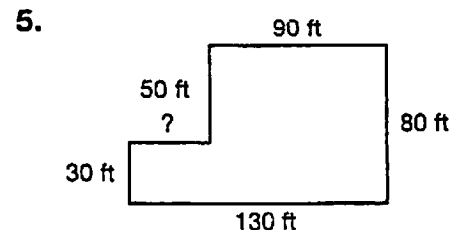
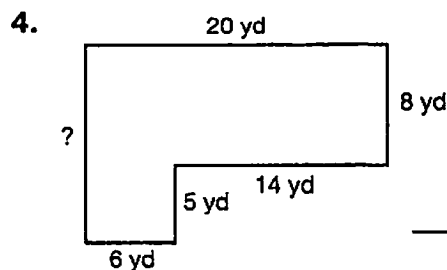
Find the length of the unknown side.



a. In a rectangle, opposite sides are \_\_\_\_\_.

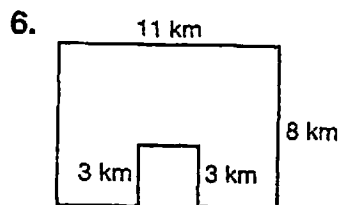
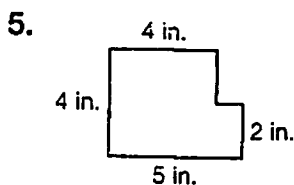
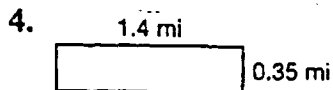
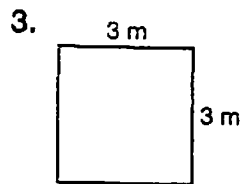
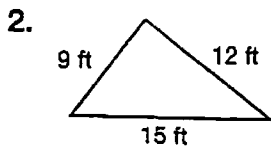
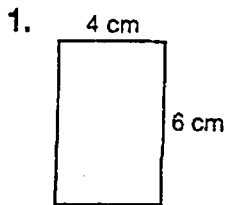
b.  $6 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

c. The unknown side is \_\_\_\_\_.

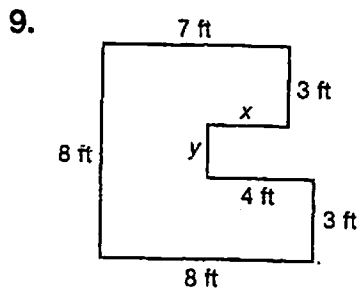
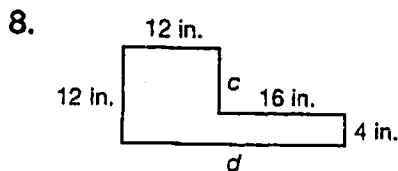
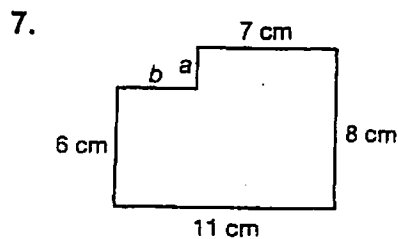


**SKILL 7: Practice**

Find the perimeter.



Find the length of each unknown side.



$$a = \underline{\hspace{1cm}} \quad b = \underline{\hspace{1cm}}$$

$$c = \underline{\hspace{1cm}} \quad d = \underline{\hspace{1cm}}$$

$$x = \underline{\hspace{1cm}} \quad y = \underline{\hspace{1cm}}$$

Solve.

10. The triangular base of a skyscraper has a perimeter of 89 m. If two of the sides have lengths 30 m and 35 m, what is the length of the third side?
- \_\_\_\_\_

**TEST PREP**

11. Each side of a hexagonal sign is 8 inches long. What is the perimeter of the sign?

- A 16 in.                      C 64 in.  
B 48 in.                      D 80 in.

Skill 7

12. A bottle holds 0.3 L. How many milliliters is this?

- F 0.03 mL                      H 30 mL  
G 0.3 mL                        J 300 mL

Skill 2