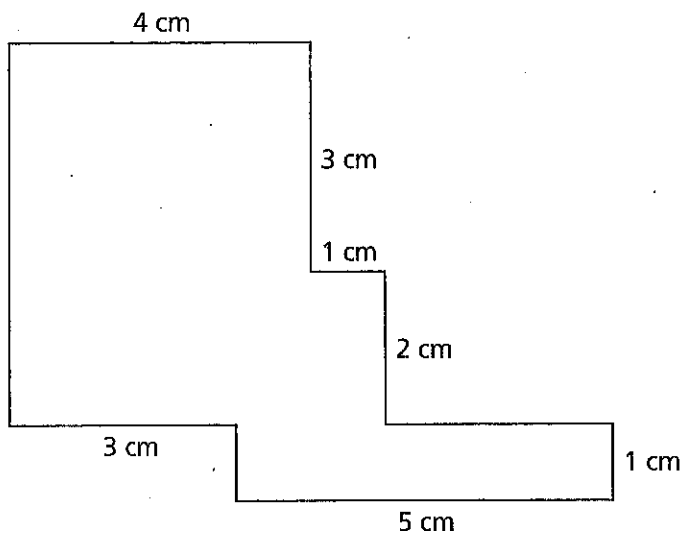


**Additional Practice** *(continued)***Investigation 1****Covering and Surrounding**

2. Susan is helping her father measure the living room floor because they want to buy new carpeting. The floor is in the shape of a rectangle with a width of 10 feet and a length of 14 feet.
- Draw a sketch that shows the shape of the floor and label the length and width.
  - If the carpeting costs \$1.75 per square foot, how much will it cost to buy the exact amount of carpeting needed to carpet the living room?
  - Baseboard needs to be installed along the base of the walls to hold the carpeting in place. Baseboard costs \$2.35 per foot. There is one 6-foot wide entry into the living room that does not need baseboard. Find the exact amount of baseboard needed and the exact cost.
3. Ellen drew a rectangle. She says the area of her rectangle is 7 square units and the perimeter is 16 units. Could Ellen be correct about the perimeter and area of her rectangle? Explain.
4. Use the diagram below to answer the following questions. (All angles in the diagram are right angles.)



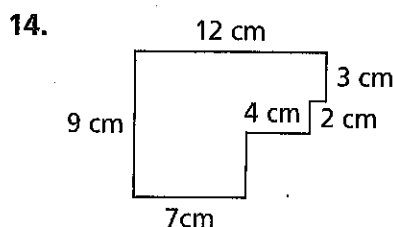
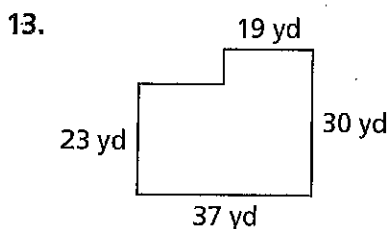
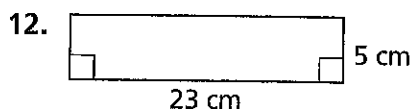
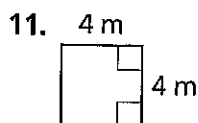
- What is the perimeter of the figure?
- What is the area of the figure?
- Explain how you found your answers for parts (a) and (b).

# Skill: Area and Perimeter of Rectangles *(continued)*

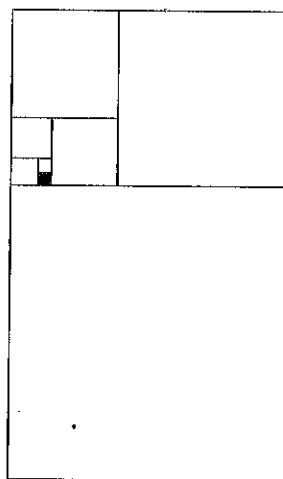
## Investigation 1

### Covering and Surrounding

Find the area of each figure.



15. The figure at the right contains only squares. Each side of the shaded square is 1 unit. What is the length, width, and area of the figure?



16. The perimeter of a rectangle is 38 centimeters. The length is 7.5 centimeters. What is the width?