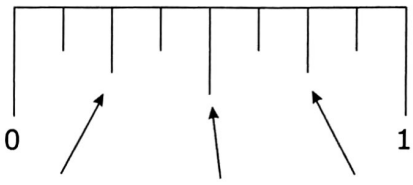
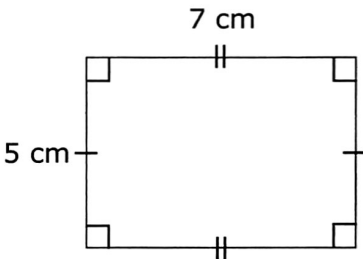


### 3.3 Calculating Perimeter Using Imperial Measures

Focus: measuring, rounding, calculating perimeter

<b>Warm Up</b>	
<p><b>1. Evaluate.</b></p> <p><b>a)</b> 7 in. + 7 in.            = _____ in.            = _____ ft _____ in.</p> <p><b>b)</b> 9" + 10"            = _____            = _____ ' _____ "</p>	<p><b>2. Name the fraction of one inch shown by each arrow.</b></p> <div style="text-align: center;">  </div> <p>_____</p>
<p><b>3. The distance around the outside of a figure is called its _____.</b></p>	<p><b>4. Calculate the perimeter of this rectangle.</b></p> <div style="text-align: center;">  </div> <p>Perimeter = _____</p>

Chapter  
**3**

#### Calculating Perimeter

- 1. Measure each line segment. Round each measurement to the nearest half-inch. Write the measurement above the line. The first line is done for you.**

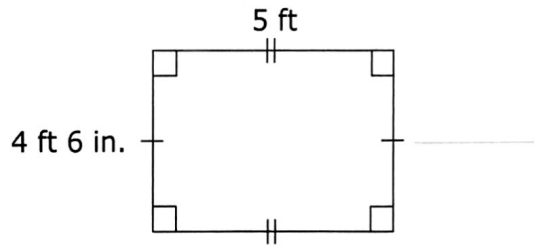
$2\frac{1}{2}$  in.

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_
- e) \_\_\_\_\_
- f) \_\_\_\_\_

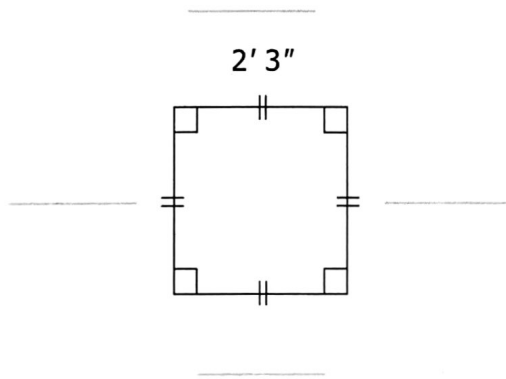
The line is slightly longer than  $2\frac{1}{2}$  in., but it is closer to  $2\frac{1}{2}$  in. than it is to 3 in.

2. Label the unknown dimensions.

a)



b)



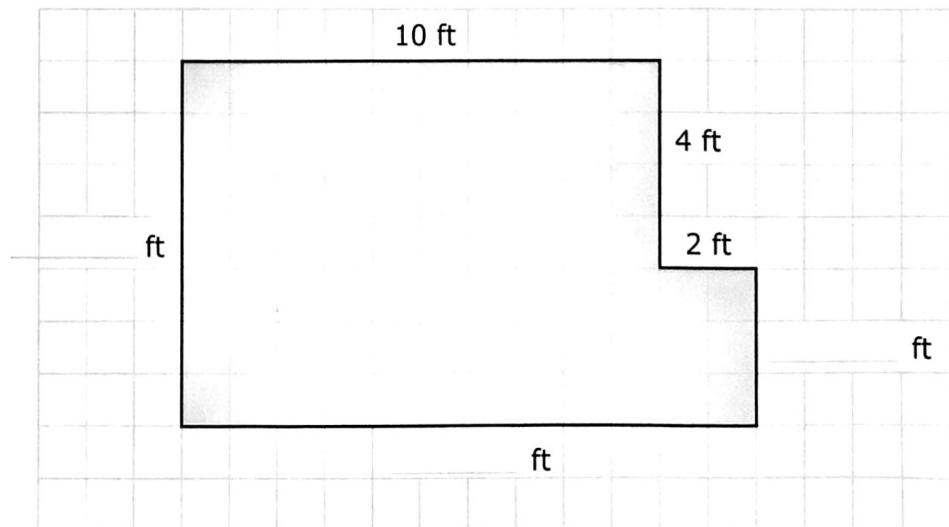
3. Calculate the perimeter of each figure in #2.

a) Perimeter = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_  
 = \_\_\_\_\_ ft \_\_\_\_\_ in.

Since \_\_\_\_\_ in. equal 1 ft, the perimeter is \_\_\_\_\_ ft.

b) Perimeter = \_\_\_\_\_ × \_\_\_\_\_  
 = \_\_\_\_\_ ft \_\_\_\_\_ in.  
 = \_\_\_\_\_ ft

4. The following diagram is on a quarter-inch grid. The scale is 1 square to 1 foot. Label the missing dimensions. Then, calculate the perimeter of the figure.

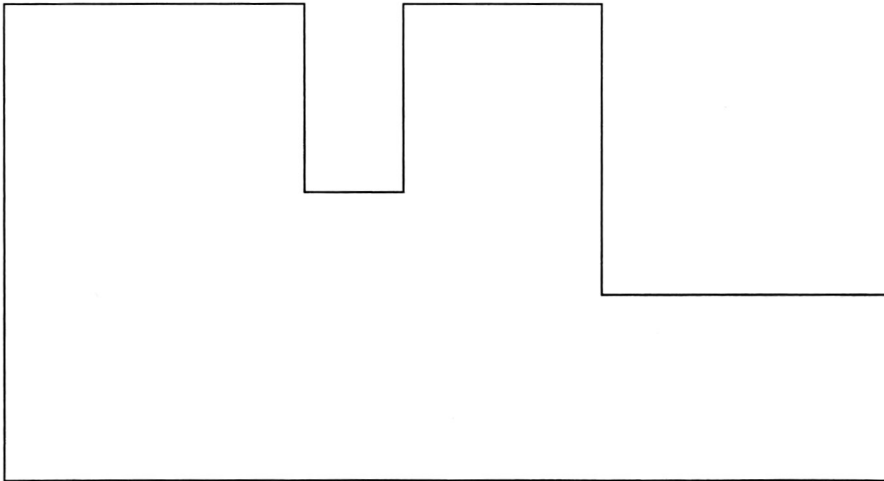


Perimeter =

5. Measure the length and the width of each item listed in the table. Round each measurement to the nearest inch. Then, calculate the perimeter of each item.

Item	Length	Width	Perimeter
Display board			
Your desktop			
Sheet of paper			
Classroom door			
Teacher's desk			

6. Measure each side of the figure in the diagram to the nearest  $\frac{1}{2}$  in. Place each measurement on the diagram. Then, calculate the perimeter of the figure.



Perimeter =

### **✓ Check Your Understanding**

A friend says that 2' 5" times three equals 6' 15".  
You answer, "Well, yes that's right but

\_\_\_\_\_."