

Finding the Area of a Piecewise Rectangular Figure

• Example 1

Find the area of Figure 1.

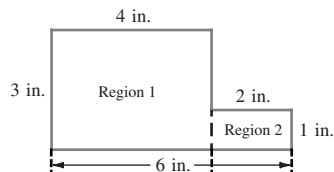


Figure 1

The area of the figure is found by adding the areas of regions 1 and 2. Region 1 is a 4 in. by 3 in. rectangle. Region 2 is a 2 in. by 1 in. rectangle.

The total area is the sum of the two areas:

$$\text{Region 1: } 12 \text{ in.}^2 \quad (4 \times 3 = 12)$$

$$\text{Region 2: } 2 \text{ in.}^2 \quad (1 \times 2 = 2)$$

$$\text{Total area: } 14 \text{ in.}^2 \quad (12 + 2 = 14)$$

• • • CHECK YOURSELF 1

Find the area of Figure 2.

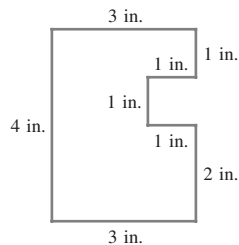


Figure 2

• • • CHECK YOURSELF ANSWER

1. 11 in.^2 .

1.32 Exercises

Name _____

Section _____

Date _____

ANSWERS

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

Find the area of each figure shown. Each figure is made up of rectangular regions.

