

# 1.31

## Area of a Rectangle

### • Example 1

A rectangular room has dimensions 12 by 15 feet. Find its area.

**Solution** Use the formula  $A = L \times W$ , with  $L = 15$  and  $W = 12$ , where  $L$  and  $W$  are expressed in ft and  $A$  is expressed in  $\text{ft}^2$ .

$$\begin{aligned} A &= L \times W \\ &= 15 \times 12 = 180 \end{aligned}$$

The area of the room is  $180 \text{ ft}^2$ .

### ● ● ● CHECK YOURSELF 1

A desktop has dimensions 50 in. by 25 in. What is the area of its surface?

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### ● ● ● CHECK YOURSELF ANSWER

1.  $1250 \text{ in.}^2$ .

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# 1.31 Exercises

Name \_\_\_\_\_

Section \_\_\_\_\_

Date \_\_\_\_\_

## A N S W E R S

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
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9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

Find the area of each rectangle.

