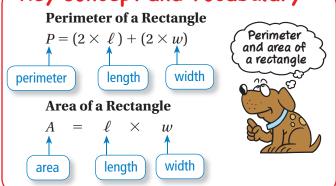
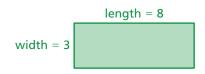
# Key Concept and Vocabulary

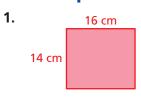


### **Visual Model**



$$P = (2 + \ell) + (2 + w)$$
  $A = \ell \times w$   
=  $(2 \times 8) + (2 \times 3)$  =  $8 \times 3$   
=  $16 + 6$  =  $24$  square units  
=  $22$  units

## **Skill Examples**



$$P = (2 \times 16) + (2 \times 14)$$
  
= 32 + 28  
= 60 centimeters

2. 
$$A = 12 \times 9$$
$$= 108 \text{ square feet}$$

### **Application Example**

**3.** You want to put string lights around a rectangular window that is 52 inches long and 32 inches wide. How many inches of lights do you need?

$$P = (2 \times 52) + (2 \times 32)$$
  
= 104 + 64  
= 168 inches

• You need 168 inches of lights.

# **PRACTICE MAKES PURR-FECT®**

Check your answers at BigIdeasMath.com.

Find the perimeter of the rectangle.

12 ft

**4.** 6 yd 7 yd

Perimeter = 26 yards

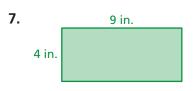


 $Perimeter = \frac{222 meters}{}$ 

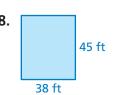


Perimeter = \_\_\_\_\_

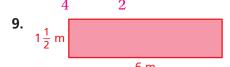
Find the area of the rectangle.



 $Area = \underline{36 \text{ square inches}}$ 



Area = 1,710 square feet



Area = 9 square meters

- **10. DIRT BIKE** You ride a dirt bike around a rectangular track that is 154 meters long and 110 meters wide. How long is one lap around the track? \_\_\_\_\_\_ 528 meters
- **11. FLAG** You design a rectangular flag that is 60 inches long and 36 inches wide. How many square inches of fabric do you need to make the flag? 2,160 square inches