Name _____

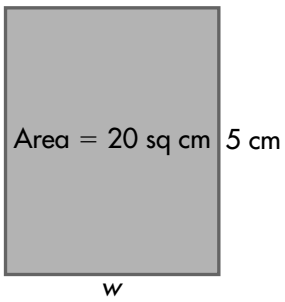
Practice Video Tools Games

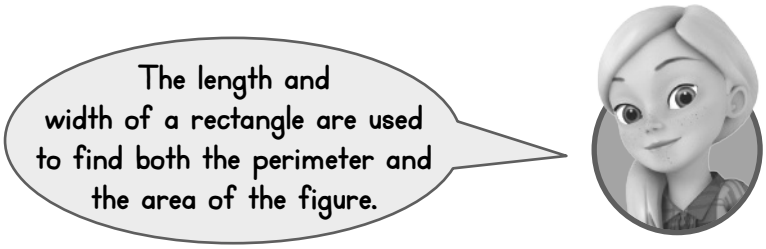
Additional Practice 13-6

Solve Perimeter and Area Problems

Another Look!

Find the perimeter of the rectangle.





Use the formula for the area of a rectangle to find the width.

$A = \ell \times w$

$20 = 5 \times w$

$w = 4$

The width of the rectangle is 4 centimeters.

Use the formula for perimeter to find the perimeter of the rectangle.

$P = (2 \times \ell) + (2 \times w)$

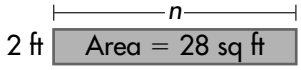
$P = (2 \times 5) + (2 \times 4)$

$P = 10 + 8 = 18$

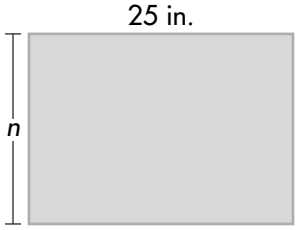
The perimeter of the rectangle is 18 centimeters.

For **1–4**, use the formulas for perimeter and area to solve each problem.

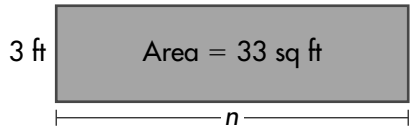
1. Find *n*.



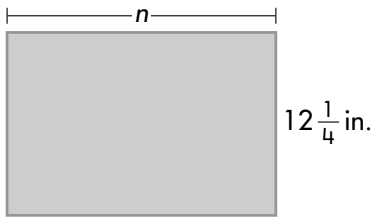
2. Find *n*. Then find the area.
Perimeter = 86 in.



3. Find *n*. Then find the perimeter.



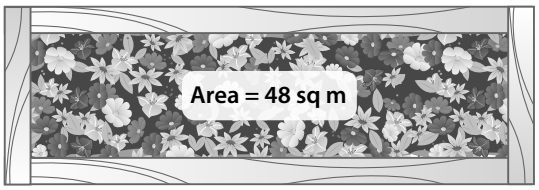
4. Find *n*. Perimeter = $60\frac{2}{4}$ in.



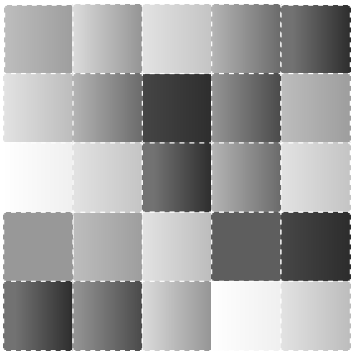
5. On Friday, 39,212 fans attended the baseball game at a major league baseball park. On Saturday, 41,681 fans attended, and on Sunday 42,905 fans attended. How many more fans attended on Saturday and Sunday than on Friday?

6. What is the area of a square with a perimeter of 28 feet?

7. One side of the flower garden is 3 times as long as the other. What are the dimensions of the flower garden?



8. The sides of each square in the potholder measure 1 inch. What are the perimeter and area of the potholder?



9. How many seconds are in 3 minutes? There are 60 seconds in one minute. Complete the table.

Minutes	Seconds
1	
2	
3	

10. **Higher Order Thinking** An art class is planning to paint a rectangular mural with an area of 60 square feet. It has to be at least 4 feet high but no more than 6 feet high. The length and width have to be whole numbers. List all possible widths for the mural.

Assessment Practice

11. The rectangle has a perimeter of 86 yards. Which is its area? 4.MD.1.3

Ⓐ 210 sq yd

Ⓑ 420 sq yd

Ⓒ 560 sq yd

Ⓓ 840 sq yd