

## Relationship Between Area and Perimeter

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**A rectangular window pan has an area of 84 square yards. Its perimeter is 38 yards. What are the dimensions of the window pan?**

1.  3 yd by 28 yd  
 2 yd by 42 yd  
 4 yd by 21 yd  
 7 yd by 12 yd

**The area of a rectangular envelope is 60 square inches. Its perimeter is 34 inches. What are the dimensions of the envelope?**

2.  in by  in

**A rectangular door has a perimeter of 24 feet. Its area is 32 square feet. What are the dimensions of the door?**

3.  ft by  ft

**A rectangular deck has an area of 192 square feet. Its perimeter is 56 feet. What are the dimensions of the deck?**

4.  ft by  ft

**A rectangular balcony has an area of 45 square feet and a perimeter of 28 feet. What are the dimensions of the balcony?**

5.  ft by  ft

**A rectangular parking space has an area of 120 square yards. Its perimeter is 58 yards. What are the dimensions of the parking space?**

6.  yd by  yd

**A rectangular park has an area of 100 square yards. Its perimeter is 58 yards. What are the dimensions of the park?**

7.  yd by  yd

**A rectangular playground has a perimeter of 26 yards and an area of 36 square yards. What are the dimensions of the playground?**

8.  4 yd by 9 yd  
 3 yd by 12 yd  
 6 yd by 6 yd  
 2 yd by 18 yd

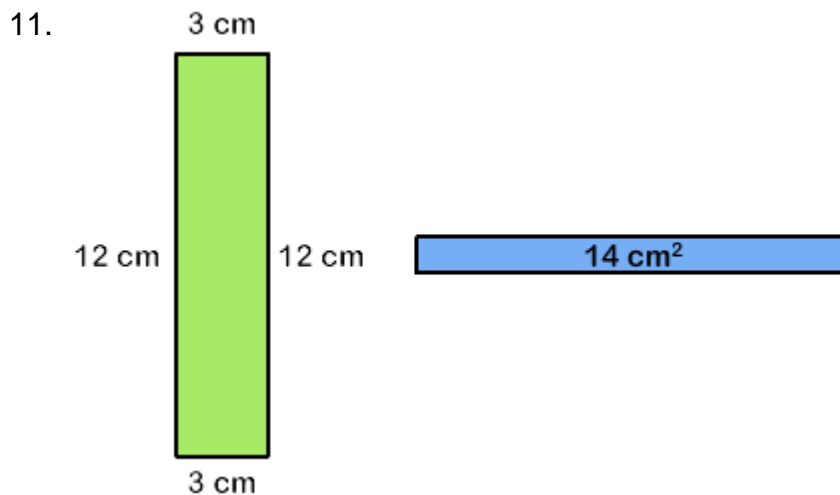
**The surface of a pool table has an area of 40 square feet. Its perimeter is 28 feet. What are the dimensions of the pool table?**

9.  5 ft by 8 ft  
 2 ft by 20 ft  
 1 ft by 40 ft  
 4 ft by 10 ft

The floor of a rectangular kitchen has an area of 30 square feet and a perimeter of 22 feet. What are the dimensions of the floor of the kitchen?

10.  5 ft by 6 ft  
 3 ft by 10 ft  
 2 ft by 15 ft  
 1 ft by 30 ft

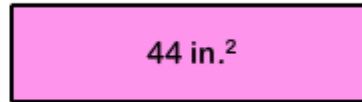
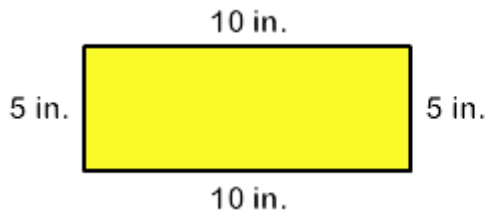
The rectangles given below have the same perimeter. If the area of the blue rectangle is 14 square centimeters, then what are its dimensions?



- 4 cm by 3 cm  
 1 cm by 14 cm  
 3 cm by 12 cm  
 2 cm by 7 cm

The rectangles given below have the same perimeter. If the area of the pink rectangle is 44 square inches, what are its dimensions?

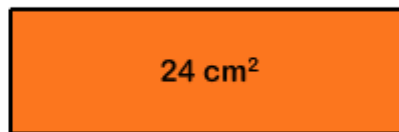
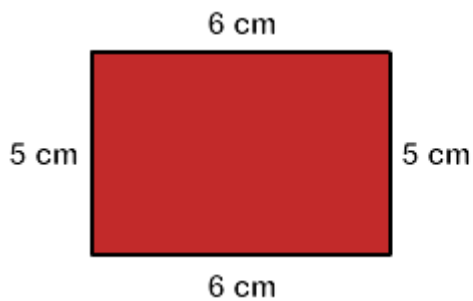
12.



- 2 in by 22 in
- 1 in by 44 in
- 7 in by 10 in
- 4 in by 11 in

The rectangles given below have the same perimeter. If the area of the orange rectangle is 24 square centimeters, what are its dimensions?

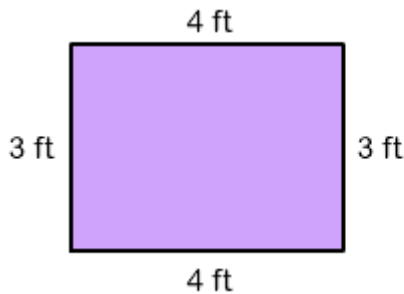
13.



- 1 cm by 24 cm
- 3 cm by 8 cm
- 4 cm by 6 cm
- 2 cm by 12 cm

The rectangles given below have the same perimeter. If the area of the red rectangle is 10 square feet, what are its dimensions?

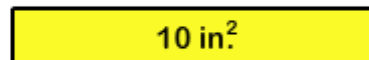
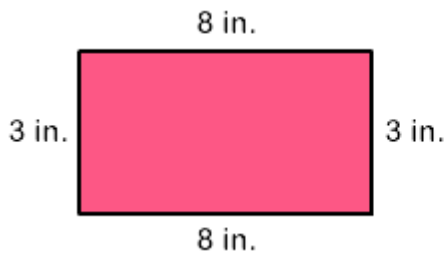
14.



- 2 ft by 5 ft
- 3 ft by 4 ft
- 1 ft by 10 ft
- 2 ft by 2 ft

The rectangles given below have the same perimeter. If the area of the yellow rectangle is 10 square inches, what are its dimensions?

15.



- 2 in by 5 in
- 8 in by 3 in
- 1 in by 10 in
- 3 in by 4 in