

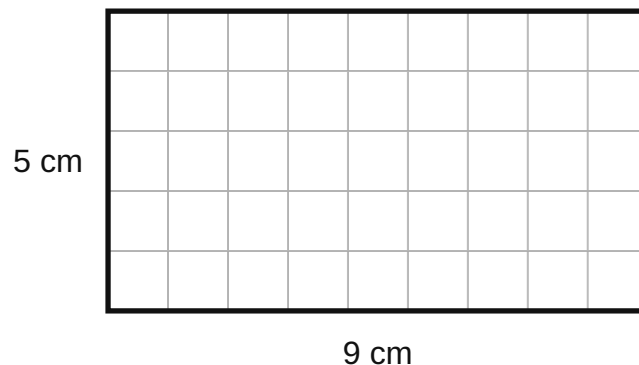
## Boost Free Lessons - Year 5 Maths

### Lesson 14: Perimeter of Rectangles and Squares

Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_

#### Worked Example 1

Find the perimeter of a rectangle 9 cm long and 5 cm wide.



1. **Perimeter** is the total distance all the way around the outside.
2. A rectangle has two lengths and two widths.
3.  $P = 9 + 5 + 9 + 5$ , or more quickly  $P = 2 \times 9 + 2 \times 5$ .
4.  $= 18 + 10 = 28$ .

**Perimeter = 28 cm**

#### Worked Example 2

A square has a perimeter of 36 cm. Find the length of one side.

1. A square has four equal sides, so the perimeter is  $4 \times$  the side length.
2. This time you know the perimeter and need the side, so divide instead of multiply.
3.  $36 \div 4 = 9$ .
4. Check:  $9 + 9 + 9 + 9 = 36$ .

**Each side is 9 cm**

**Remember:** **Perimeter** is the distance around the outside. For a rectangle,  $P = 2 \times \text{length} + 2 \times \text{width}$ . For a square,  $P = 4 \times \text{side}$ .



**Question 1:** Find the perimeter of each shape.

1. Rectangle, 7 cm by 4 cm
2. Rectangle, 12 m by 3 m
3. Square, side 6 cm
4. Square, side 15 m
5. Rectangle, 20 cm by 8 cm
6. Rectangle, 2.5 m by 4 m
7. Square, side 9 mm
8. Rectangle, 25 cm by 14 cm



**Question 2:** Answer the following.

1. A square has a perimeter of 48 cm. Find one side.
  
  
  
  
  
  
  
  
  
  
2. A rectangle has a perimeter of 30 m and a width of 6 m. Find its length.
  
  
  
  
  
  
  
  
  
  
3. A rectangle has a perimeter of 26 cm and a length of 8 cm. Find its width.
  
  
  
  
  
  
  
  
  
  
4. A square has sides of 12 cm. What is its perimeter in millimetres?
  
  
  
  
  
  
  
  
  
  
5. Two squares of side 5 cm are joined to make a rectangle. Find its perimeter.
  
  
  
  
  
  
  
  
  
  
6. Which has the larger perimeter: a 6 cm square, or a 8 cm by 4 cm rectangle?



**Question 3:** Answer the following questions.

1. A garden bed is 12 m by 7 m. How much fencing is needed to go around it?
2. Fencing costs \$18 per metre. Using your answer above, find the total cost.
3. A photo frame is 30 cm by 20 cm. How much ribbon goes around the edge?
4. A square playground has a perimeter of 80 m. How long is each side?
5. A rectangle has a perimeter of 24 cm. Its length is twice its width. Find both.





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**Answers:** Perimeter of Rectangles and Squares**Question 1**

1. 22 cm
2. 30 m
3. 24 cm
4. 60 m
5. 56 cm
6. 13 m
7. 36 mm
8. 78 cm

**Question 2**

1. 12 cm
2. 9 m
3. 5 cm
4. 480 mm
5. 30 cm
6. They are equal, both 24 cm

**Question 3**

1. 38 m
2. \$684
3. 100 cm
4. 20 m
5. Width 4 cm, length 8 cm

