Perimeter of Rectangles and Squares

FREE Worksheet - 6

Time: 15 minutes

(Detailed solutions at the end)

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1. The perimeter of a rectangle is 120 cm and its breadth is 26 cm. Calculate its length.
   a. 36 cm
   b. 33 cm
   c. 37 cm
   d. 34 cm

2. Find the breadth of a rectangle whose perimeter is 100 cm and length is 28 cm.

   Answer: _____cm

3. The perimeter of a square is 12 cm. Find the length of a side.
   a. 3 cm
   b. 48 cm
   c. 144 cm
   d. 6 cm

4. The side of a square photo frame measures 15 cm. What is its perimeter?

   Answer: _____cm

5. A rectangular plot of land measures 38 m in breadth and 42 m in length. What is the perimeter of the plot?
   a. 4 m
   b. 80 m
   c. 160 m
   d. 1596 m

6. Calculate the perimeter of a square sheet of origami paper whose side measures 7 cm.
   a. 28 cm
   b. 49 cm
   c. 14 cm
   d. 70 cm

SOLUTIONS

Problem 1

Perimeter of rectangle = length + breadth + length + breadth

Perimeter ÷ 2 = length + breadth

Given,

Perimeter = 120 cm and breadth = 26 cm

Length + breadth = 120 ÷ 2

Length + breadth = 60

Therefore,

Length = 60 − 26 cm = **34 cm (Answer: d)**

Problem 2

Perimeter of rectangle = length + breadth + length + breadth

Perimeter ÷ 2 = length + breadth

Given,

Perimeter = 100 cm and length = 28 cm

Length + breadth = 100 ÷ 2

Length + breadth = 50

Therefore,

Breadth = 50 − 28 cm = **22 cm**

Problem 3

Perimeter of a square = 4 × length

Therefore,

Length = Perimeter ÷ 4

Length = 12 ÷ 4 = **3 cm (Answer: a)**

Problem 4

Perimeter of a square = 4 × length

Given,

Length = 15 cm

Therefore,

Perimeter = 4 × 15 = **60 cm**

Problem 5

Perimeter of rectangle = length + breadth + length + breadth

Given,

Breadth = 38 m

Length = 42 m

Therefore,

Perimeter = 42 + 38 + 42 + 38 = **160 m (Answer: c)**

Problem 6

Perimeter of a square = 4 × length

Given,

Length = 7 cm

Therefore,

Perimeter = 4 × 7 = **28 cm (Answer: a)**