

Year 4
Chapter 13
Topic: Area and Perimeter
Sub Topic: Perimeter of Rectangles

Name: _____ Date: _____

Lesson Objectives	Steps to follow
1) To find the length or breadth of a rectangle given its perimeter and the breadth or length respectively.	1) Write the formula 2) To find perimeter, we add all the sides. 3) To find Length / Breadth, we divide the given perimeter by 2 then subtract the result by the length or breadth. 4) Write the unit in cm or m.

Perimeter of a Rectangles



$$\begin{aligned} \text{Perimeter of rectangle} &= \text{Length} + \text{Breadth} + \text{Length} + \text{Breadth} \\ &\text{OR} \\ &= 2 \times \text{Length} + \text{Breadth} \end{aligned}$$

Example: Find the perimeter of the figure below.

A)

Perimeter of rectangle

$= 5 \text{ cm} + 3 \text{ cm} + 5 \text{ cm} + 3 \text{ cm}$

$= 16 \text{ cm}$

B) Find the missing side given the area,

Perimeter $= 18 \div 2$

$= 9 \text{ cm}$

Length $= 6 \text{ cm}$

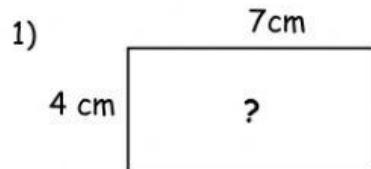
Breadth $= 9 - 6$

$= \underline{3 \text{ cm}}$

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Exercise 1.

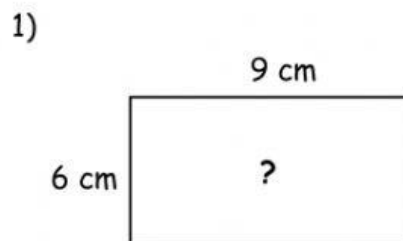
Find the area of each figure below.



Perimeter of rectangle

$$= \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm }$$

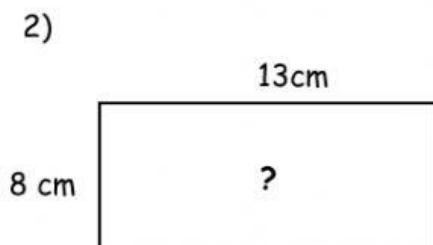
$$= \text{ ______ cm }$$



Perimeter of rectangle

$$= \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm }$$

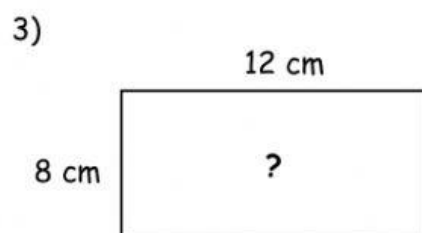
$$= \text{ ______ cm }$$



Perimeter of rectangle

$$= \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm }$$

$$= \text{ ______ cm }$$



Perimeter of rectangle

$$= \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm } + \text{ ______ cm }$$

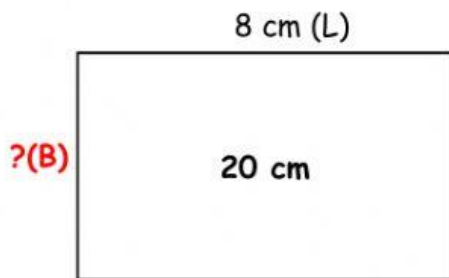
$$= \text{ ______ cm }$$

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Exercise 2

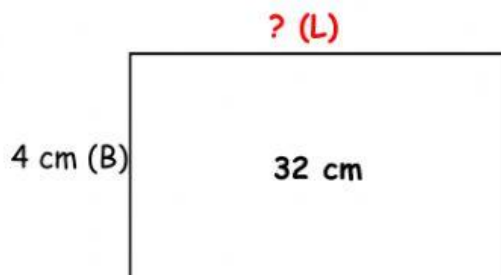
Find the Length or Breadth given perimeter.

- 4) The perimeter of rectangle is 20 cm. Its length is 8 cm . Find the breadth of the rectangle.



$$\begin{aligned}\text{Perimeter} &= 20 \div 2 \\ &= \underline{\hspace{2cm}} \text{ cm} \\ \text{Length} &= \underline{\hspace{2cm}} \text{ cm} \\ \text{Breadth} &= \underline{\hspace{2cm}} - \underline{\hspace{2cm}} \\ &= \underline{\hspace{2cm}} \text{ cm}\end{aligned}$$

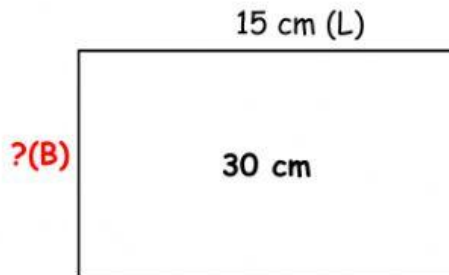
- 5) The perimeter of rectangle is 32 cm. Its breadth is 4 cm . Find the breadth of the rectangle.



$$\begin{aligned}\text{Perimeter} &= 32 \div 2 \\ &= \underline{\hspace{2cm}} \text{ cm} \\ \text{Breadth} &= \underline{\hspace{2cm}} \text{ cm} \\ \text{Length} &= \underline{\hspace{2cm}} - \underline{\hspace{2cm}} \\ &= \underline{\hspace{2cm}} \text{ cm}\end{aligned}$$

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- 6) The perimeter of rectangle is 30 cm. Its length is 18 cm . Find the **breadth** of the rectangle.



$$\text{Perimeter} = \underline{\hspace{2cm}} \div \underline{2}$$

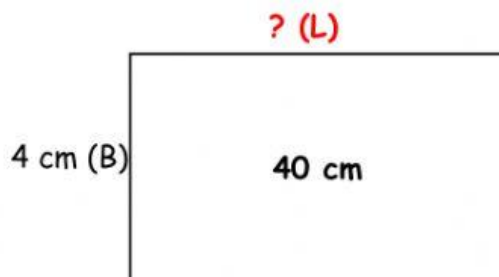
$$= \underline{\hspace{2cm}} \text{ cm}$$

$$\text{Length} = \underline{\hspace{2cm}} \text{ cm}$$

$$\text{Breadth} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \text{ cm}$$

- 7) The perimeter of rectangle is 40 cm. Its breadth is 4 cm . Find the **breadth** of the rectangle.



$$\text{Perimeter} = \underline{\hspace{2cm}} \div \underline{2}$$

$$= \underline{\hspace{2cm}} \text{ cm}$$

$$\text{Breadth} = \underline{\hspace{2cm}} \text{ cm}$$

$$\text{Length} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \text{ cm}$$