



Perimeter of an L-Shape



Watch video

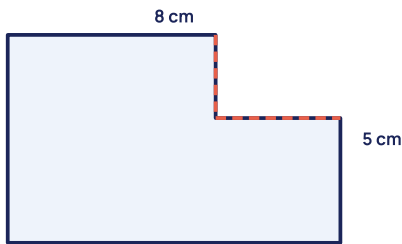
MathApex

Name: _____

Date: _____

From the videoL-shape in a rectangle of 6 cm and 4 cm → $6 + 4 + 6 + 4 = 20$ cm**1 Now it's your turn!**

An L-shape fits into a rectangle of 8 cm and 5 cm. What is its perimeter?

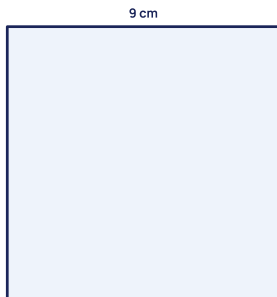


Slide the short sides outwards: the perimeter is as big as for the whole rectangle.

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

3 Perimeter of the square.

A square has sides of 9 cm. What is its perimeter?



$$4 \times \square = \square \text{ cm}$$

5 Think backwards.

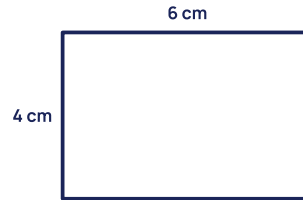
A rectangle has a perimeter of **24 cm** and is 7 cm long. How wide is it?

$$24 - 7 - 7 = \square \text{ cm}$$

$$\square \div 2 = \square \text{ cm}$$

2 Perimeter of the rectangle.

The rectangle is 6 cm long and 4 cm wide.



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

4 Triangles.

a) An equilateral triangle has three sides of 5 cm each. Perimeter?

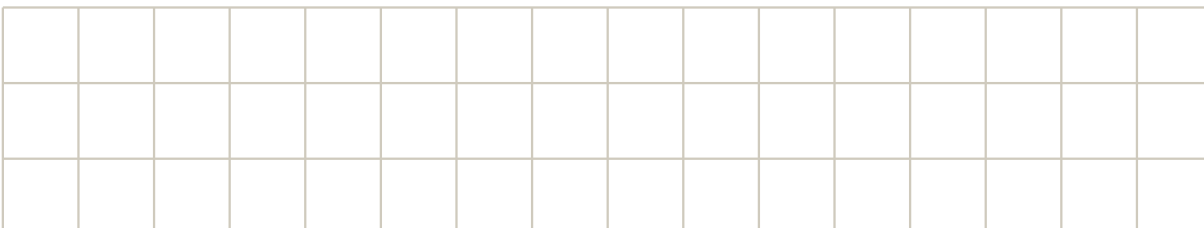
$$3 \times \square = \square \text{ cm}$$

b) A triangle has sides of 7 cm, 4 cm and 6 cm. Perimeter?

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

★ Brain teaser

A rectangle has a perimeter of 30 cm and is twice as long as it is wide. How long and how wide is it?

6 Draw a rectangle with a perimeter of 16 cm on the grid. There are several solutions.



Perimeter of an L-Shape

**1 Now it's your turn!**

$$8 + 5 + 8 + 5 = 26 \text{ cm}$$

The indented sides together add up to exactly the missing sides of the rectangle.

2 Perimeter of the rectangle.

$$6 + 4 + 6 + 4 = 20 \text{ cm}$$

3 Perimeter of the square.

$$4 \times 9 = 36 \text{ cm}$$

4 Triangles.

$$3 \times 5 = 15 \text{ cm}$$

$$7 + 4 + 6 = 17 \text{ cm}$$

5 Think backwards.

$$24 - 7 - 7 = 10, 10 \div 2 = 5 \text{ cm}$$

★ Brain teaser

Width 5 cm, length 10 cm. Check: $10 + 5 + 10 + 5 = 30 \text{ cm}$.

Perimeter = 6 times the width, so width = perimeter $\div$ 6.

6 Rectangles with a perimeter of 16 cm.

1 cm and 7 cm 2 cm and 6 cm 3 cm and 5 cm 4 cm and 4 cm

Length + width must always make 8 cm.

For parents and teachers: This worksheet goes with the video "Perimeter of an L-Shape" (Math Story 93, Grade 4). Perimeter means once around the outside. For a rectangle: two lengths and two widths, for a square: four equal sides.

More Math Stories with video and worksheet: www.mathapex.app/en/math-stories/