Perimeter of an L-Shape

MathApex

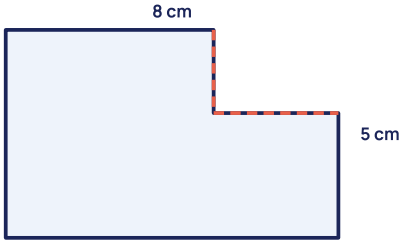
Name: _____ Date: _____

Watch video

From the video L-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?

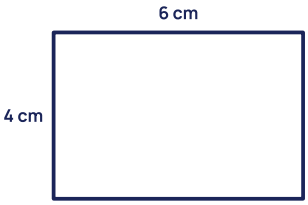


Slide the short sides outwards: the perimeter is as big as for the whole rectangle.

☐ + ☐ + ☐ + ☐ = ☐ cm

2 Perimeter of the rectangle.

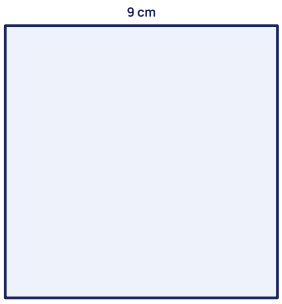
The rectangle is 6 cm long and 4 cm wide.



☐ + ☐ + ☐ + ☐ = ☐ cm

3 Perimeter of the square.

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



4 × ☐ = ☐ cm

4 Triangles.

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

3 × ☐ = ☐ cm

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

☐ + ☐ + ☐ = ☐ cm

5 Think backwards.

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

24 − 7 − 7 = ☐ cm

☐ ÷ 2 = ☐ 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.

MathApex

MATH STORY 93 · ANSWERS

Perimeter of an L-Shape

Watch video

1 Now it's your turn!

8 + 5 + 8 + 5 = 26 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 cm

3 Perimeter of the square.

4 × 9 = 36 cm

4 Triangles.

3 × 5 = 15 cm

7 + 4 + 6 = 17 cm

5 Think backwards.

24 − 7 − 7 = 10, 10 ÷ 2 = 5 cm

★ Brain teaser

Width 5 cm, length 10 cm. Check: **10 + 5 + 10 + 5 = 30 cm**.

Perimeter = 6 times the width, so width = perimeter ÷ 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.

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