The Missing Side

MathApex

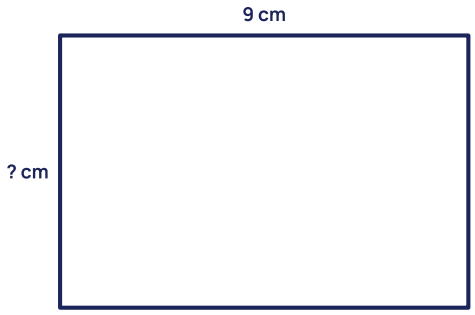
Name: _____ Date: _____

Watch video

From the video Perimeter 20 cm, length 6 cm → 20 − 6 − 6 = 8, **8 ÷ 2 = 4 cm** wide

1 Now it's your turn!

A rectangle has a perimeter of 30 cm and is 9 cm long. How wide is it?



You know two sides: 9 cm and 9 cm. The rest is shared between the other two sides.

30 − 9 − 9 = ☐ cm

☐ ÷ 2 = ☐ cm

2 Perimeter of the rectangle.

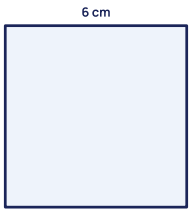
The rectangle is 5 cm long and 2 cm wide.



☐ + ☐ + ☐ + ☐ = ☐ cm

3 Perimeter of the square.

A square has sides of 6 cm. What is its perimeter?



4 × ☐ = ☐ cm

4 Triangles.

a) An equilateral triangle has three sides of 6 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 **18 cm** and is 5 cm long. How wide is it?

18 − 5 − 5 = ☐ 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 14 cm on the grid.

There are several solutions.

MathApex

MATH STORY 83 · ANSWERS

The Missing Side

Watch video

1 Now it's your turn!

30 − 9 − 9 = 12, 12 ÷ 2 = 6 cm

Check: 9 + 6 + 9 + 6 = 30 cm

2 Perimeter of the rectangle.

5 + 2 + 5 + 2 = 14 cm

3 Perimeter of the square.

4 × 6 = 24 cm

4 Triangles.

3 × 6 = 18 cm

7 + 4 + 6 = 17 cm

5 Think backwards.

18 − 5 − 5 = 8, 8 ÷ 2 = 4 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 14 cm.

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

Length + width must always make 7 cm.

For parents and teachers: This worksheet goes with the video "The Missing Side" (Math Story 83, 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/**