

Introduction to Perimeter

Work through these pages in order.

There are different perimeter activities.

The answers will follow so you can check your work and understanding.

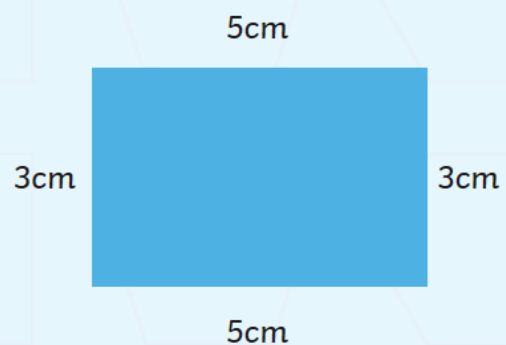
Perimeter

The perimeter is the distance around a shape.

For example, the perimeter of this rectangle is 16cm.

All you have to do is add together the lengths of each side!

$$5 + 5 + 3 + 3 = 16\text{cm}$$

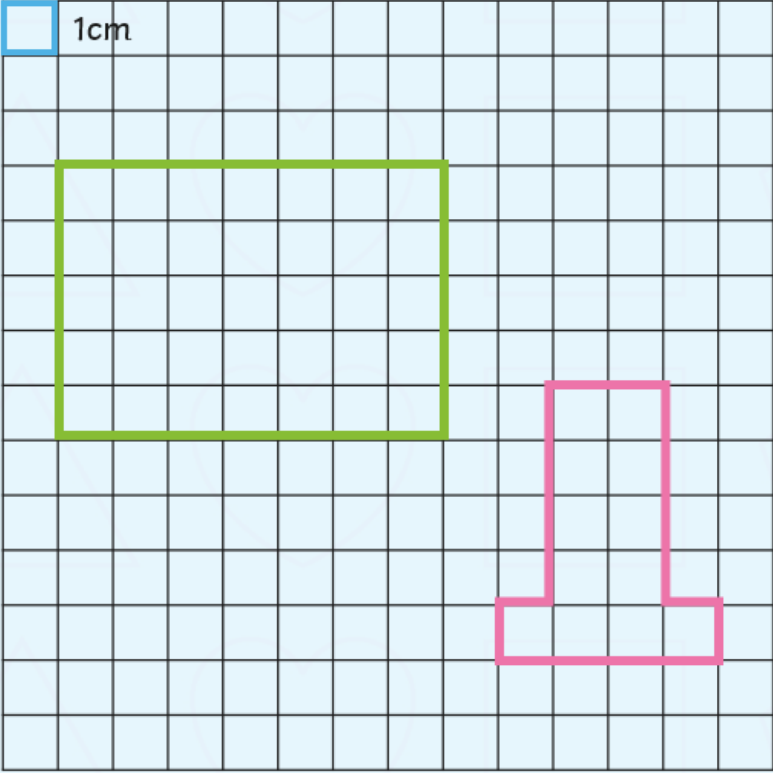


Activity 1

Calculate the perimeter of these shapes:

Calculate the Perimeter

1cm



The grid is 10 units wide and 10 units high. A green rectangle is drawn with its bottom-left corner at (2, 4) and its top-right corner at (6, 8). A pink L-shaped polygon is drawn with its bottom-left corner at (7, 2) and its top-right corner at (9, 6). The pink shape consists of a horizontal base of 3 units, a vertical stem of 3 units, and a horizontal top of 2 units.

Calculate the perimeter of these shapes.

Green = _____ cm

Pink = _____ cm

Now, check your answers:

Calculate the Perimeter

1cm

7cm

5cm

24cm

5cm

7cm

4cm

2cm

4cm

18cm

1cm

1cm

1cm

4cm

1cm

Calculate the perimeter of these shapes.

$$\begin{array}{r} 7 \\ +5 \\ +7 \\ +5 \\ \hline 24\text{cm} \end{array}$$
$$\begin{array}{r} 2 \\ +4 \\ +1 \\ +1 \\ +4 \\ +1 \\ +1 \\ +1 \\ +4 \\ \hline 18\text{cm} \end{array}$$

Were you correct?

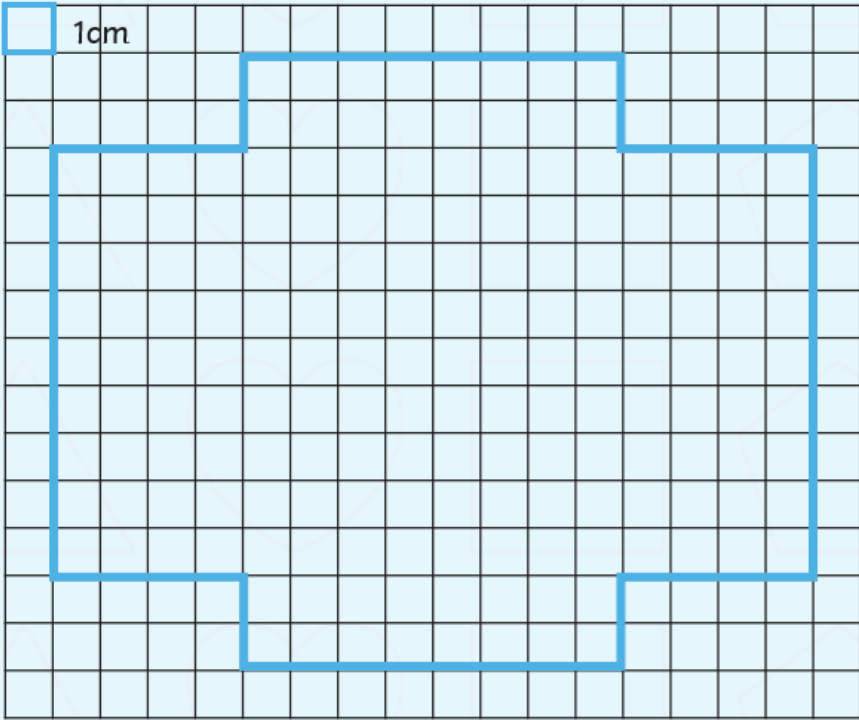
If not, go back and check your calculations to see where you went wrong.

Activity 2

Calculate the perimeter of this shape:

Imagine you are taking a walk around the shape. Add each length as you go

Find the Perimeter



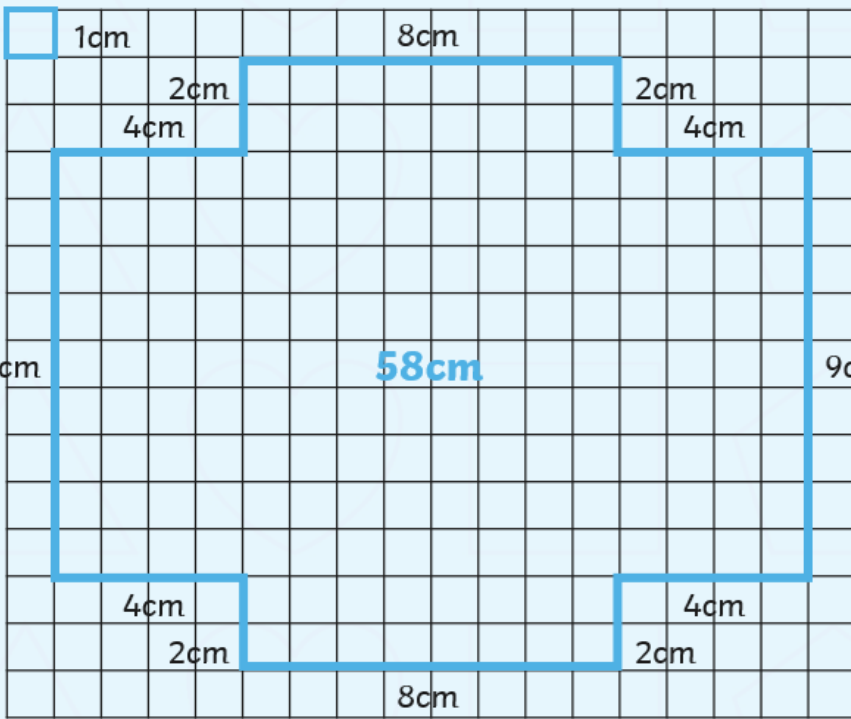
Find the perimeter of this shape.

An easy way to remember is to imagine you are taking a walk around the shape. Add each length as you go:

$$\begin{aligned} & \text{_____ cm} + \text{_____ cm} + \text{_____ cm} + \text{_____ cm} + \text{_____ cm} + \\ & \text{_____ cm} + \text{_____ cm} + \text{_____ cm} + \text{_____ cm} + \text{_____ cm} + \\ & \text{_____ cm} + \text{_____ cm} = \text{_____ cm} \end{aligned}$$

Now, check your answers:

Find the Perimeter



Find the perimeter of this shape.

An easy way to remember is to imagine you are taking a walk around the shape. Add each length as you go:

8	+8
+2	+2
+4	+4
+9	+9
+4	+4
+2	+2
	<hr/>
	58cm

Were you correct?

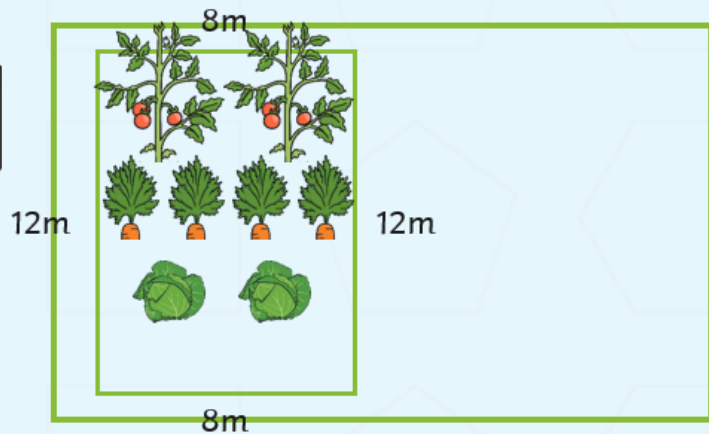
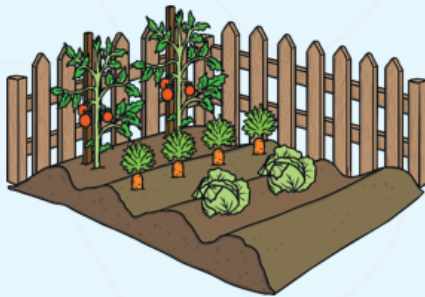
If not, go back and check your calculations to see where you went wrong.

Activity 3

Read this problem and try to solve:

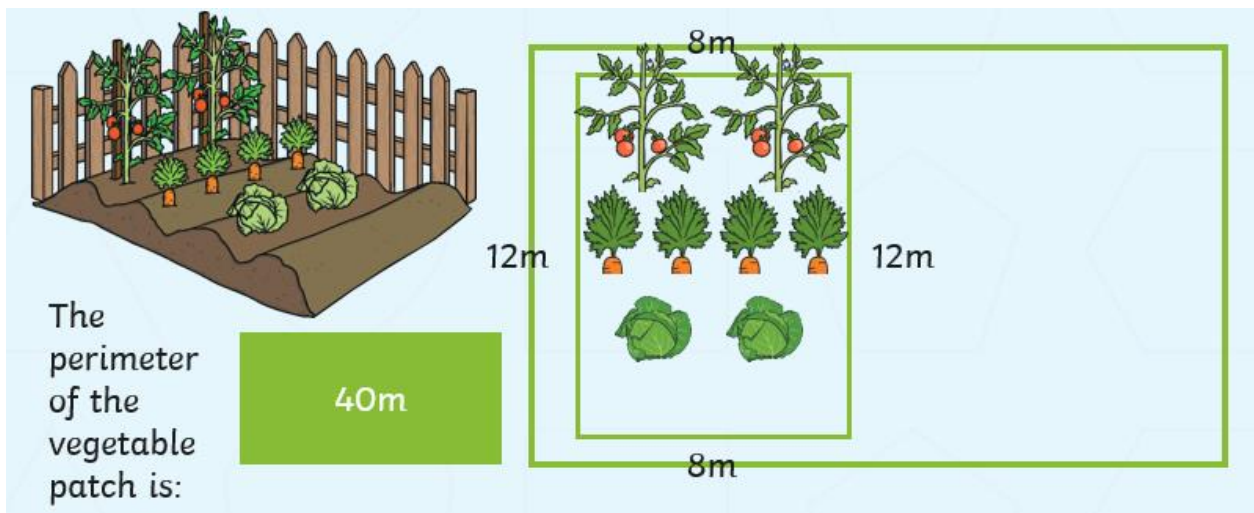
Real-Life Problems with Perimeter!

Hannah has made a vegetable patch in the school garden, but little rabbits are getting in the patch and eating all of the vegetables. She needs to build a small fence around the outside of the garden. To help her figure out how much wood to buy, she needs to calculate the perimeter.



Perimeter = _____ cm

Now, check your answers:

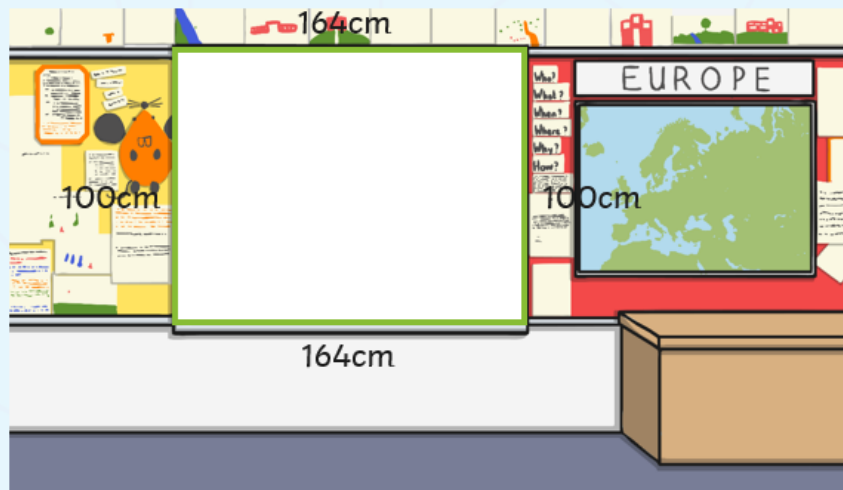


Activity 4

Read this problem and try to solve:

Real-Life Problems with Perimeter!

Mr Hislop has made a wall display in his classroom. He wants the display to have a blue border. How much paper border does he need?



Now, check your answers:

The perimeter
of the wall
display is:

528cm

Challenge:

Can you convert
the measurement
into metres and
centimetres?

528cm = _____ metres and _____ centimetres