



Calculating perimeters

Calculate the perimeter of shapes that can be split into rectangles

Challenge 1

For each shape:

- Use your ruler to measure in centimetres the sides marked a and b .
- Calculate the perimeter of the shape using the rule.

Rule
 $P = 2(a + b)$

You will need:
 • ruler

Example

$a = 3 \text{ cm}, b = 2 \text{ cm}$
 $P = 2 \times (3 + 2) \text{ cm}$
 $= 2 \times 5 \text{ cm}$
 $= 10 \text{ cm}$

A

B

C

D

E

F

Challenge 2

1 Calculate the perimeter of each shape in centimetres.

A

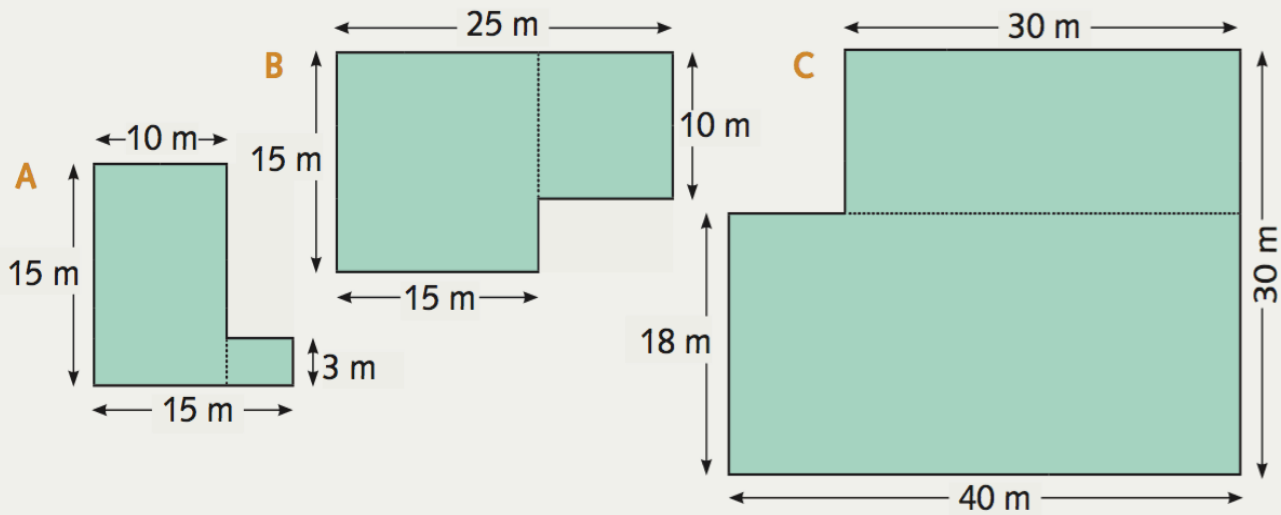
B

C

- 2 These shapes are made by joining the same green and yellow rectangles in different ways. Find the perimeter of each shape in centimetres.



- 3 Find the perimeter of each swimming pool in metres. Use the dotted lines to help you.

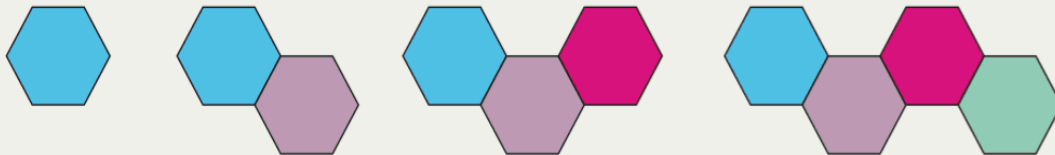


Challenge 3

The pattern of shapes below has been made using regular hexagons with sides of 1 cm.

You will need:

- 1 cm triangular dot paper
- ruler



- Copy the four shapes on to 1 cm triangular dot paper.
- Draw the fifth and sixth shapes in the pattern.
- Make a table to record the perimeter for each shape.
- Use your table to predict the perimeter of the tenth shape in the pattern.

