

Day 1

Teach

Watch the video and read through the 'Learn' section of this website:

www.bbc.co.uk/bitesize/articles/z6vr47h

If you cannot watch the video, read the information below.

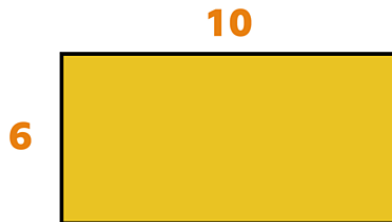
The perimeter is the distance all the way around the outside of a 2D shape.

To work out the perimeter, add up the lengths of all the sides.

A rectangle has two pairs of **parallel sides**.

If you only know the length of one short side and one long side, you can use this information to work out the length of the other sides and then the perimeter!

Can you work out the perimeter of this rectangle?



The long sides are both 10 metres and the short sides are 6 metres.

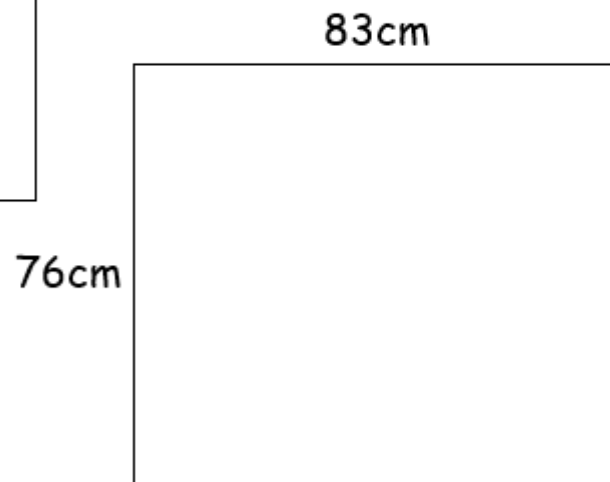
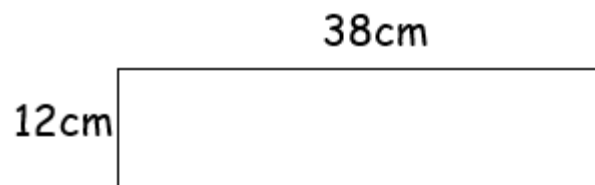
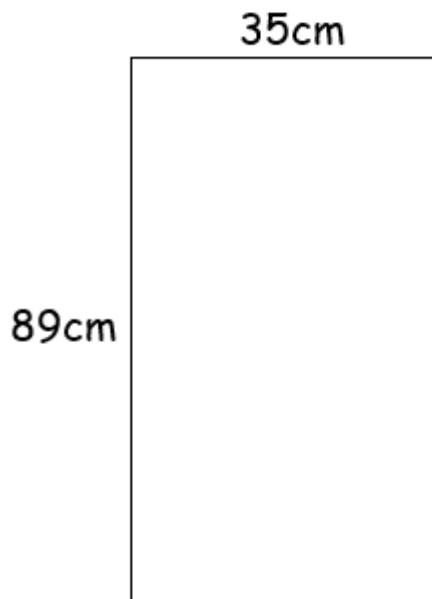
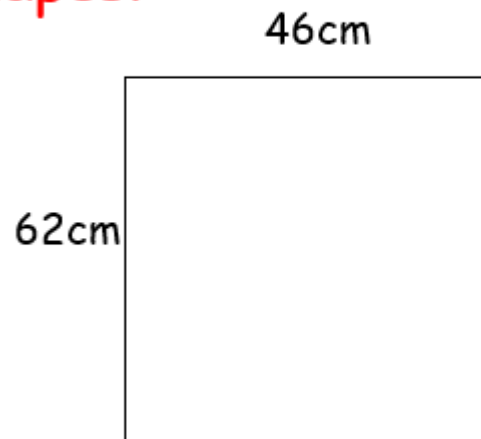
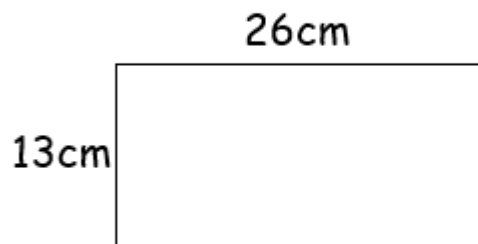
$$10 + 10 + 6 + 6 = 32$$

Practice

Activity 1

Complete this worksheet in your book:

Find the perimeter of these shapes.



Activity 2

Cut out 12 equal-sized squares of paper or use 12 square sticky-notes. Put them into one long rectangle.

- What is the perimeter of this rectangle?
- Rearrange them to make different rectangles - do they all have the same perimeter?
- How many different perimeters can you make by rearranging these squares?

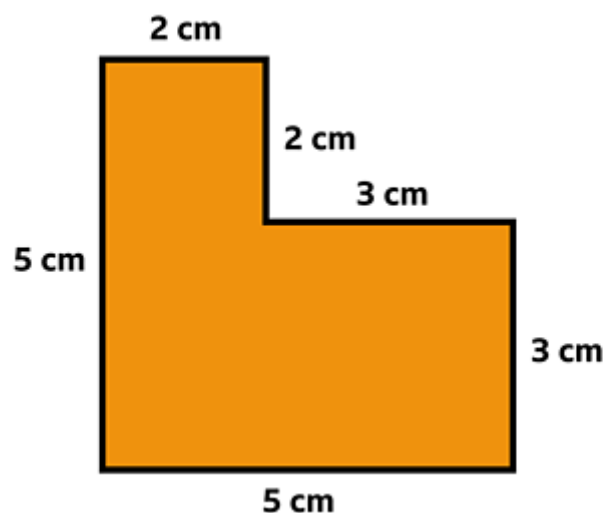
Day 2

Teach

Follow the link and read through the 'Learn' section of the website. You can also watch the video. www.bbc.co.uk/bitesize/articles/zrtsy9q

If you can't access the website, read the information below:

This shape looks much more complicated than a rectangle, but the method of working out the perimeter is exactly the same.



Add together the lengths of all the sides to find it.

$$2 + 2 + 3 + 3 + 5 + 5 = 20$$

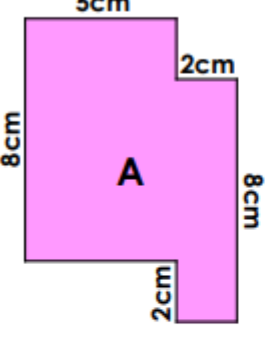
The perimeter is 20 cm

Practice

Complete the following worksheet in your workbook.

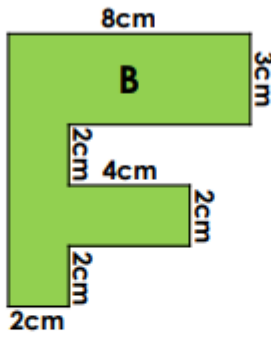
Perimeter of Rectilinear Shapes

1. Match the shape to its perimeter.



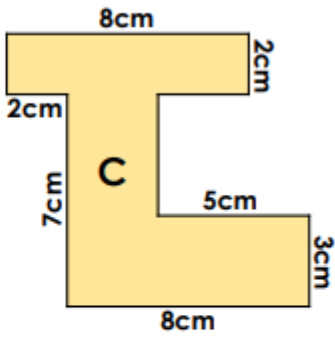
A

44cm



B

34cm

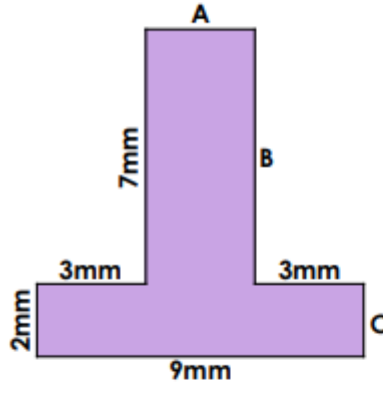


C

42cm

Not to scale

2. Put an 'X' next to the statements which are correct.



A

A. The perimeter is 40mm.

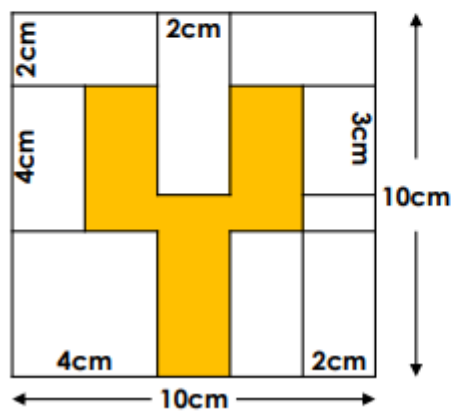
B. The length of side A is 3mm.

C. Side A is half the length of side B.

D. The total of sides A and C is 5mm.

Not to scale

3. Use the measurements of the rectangles to calculate the perimeter of the shape below.



Perimeter = cm

Not to scale