Diving into Mastery

Measure Perimeter

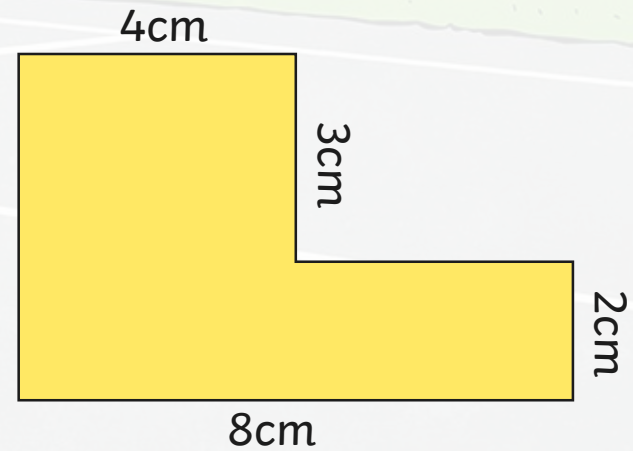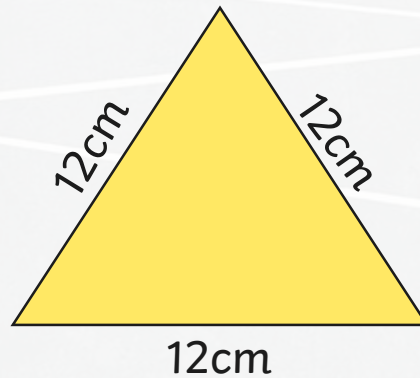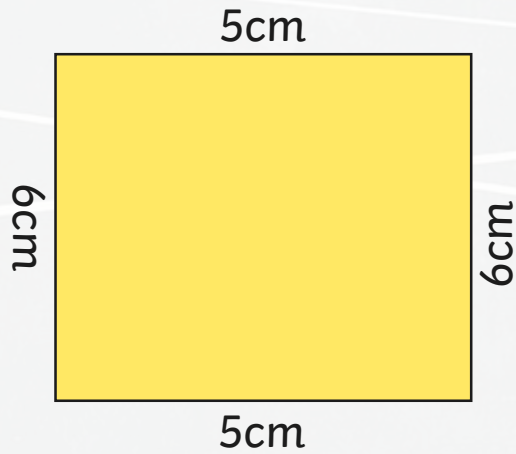# Aim

- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Match the shapes to the correct perimeter. They are not drawn to scale.
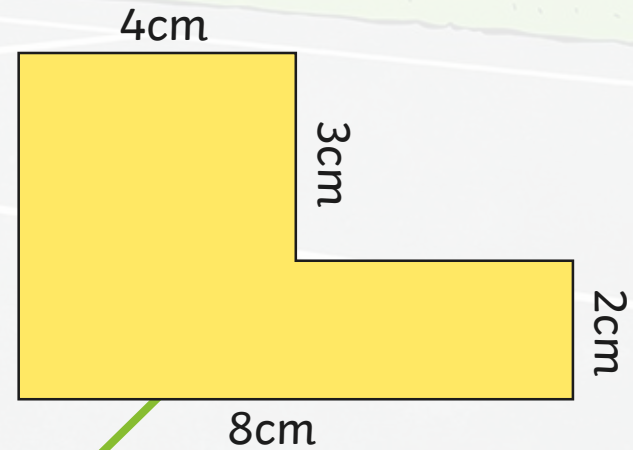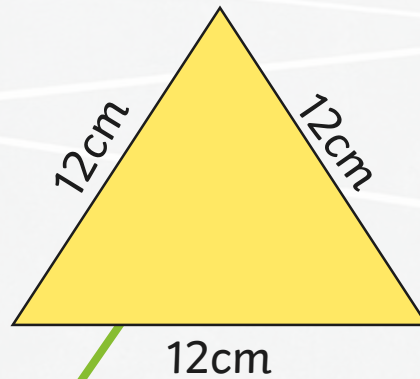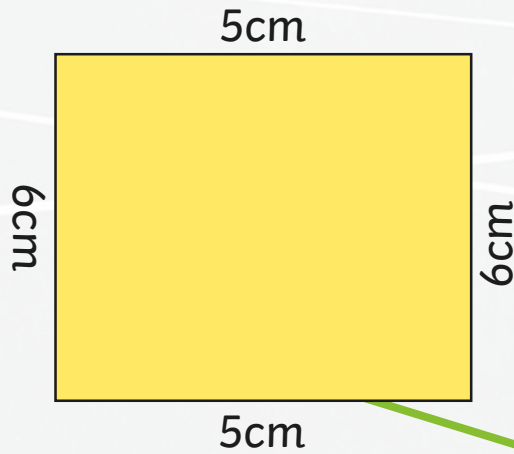
5cm

6cm

6cm

5cm

12cm

12cm

12cm

4cm

3cm

2cm

8cm

| 36cm | 26cm | 22cm |

Match the shapes to the correct perimeter. They are not drawn to scale.

5cm

6cm
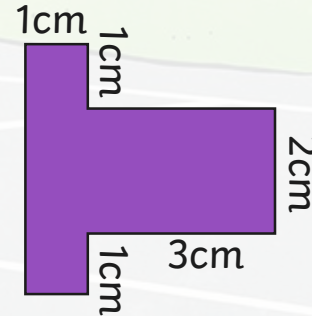
6cm

5cm

12cm

12cm

12cm

4cm

3cm

2cm

8cm

36cm

26cm

22cm

Look carefully at these rectilinear shapes. They are not drawn to scale.
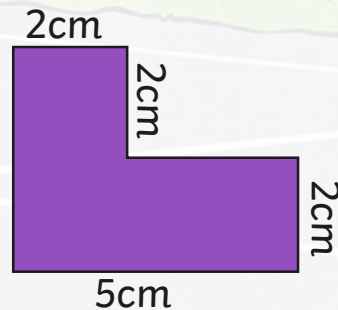
2cm
2cm
2cm
5cm

1cm
1cm
2cm
1cm
3cm

I think shape A has the shorter perimeter because it has fewer sides.

Do you agree with Raj? Explain your reasoning.

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Look carefully at these rectilinear shapes. They are not drawn to scale.

2cm
2cm
2cm
5cm

1cm
1cm
2cm
1cm
3cm
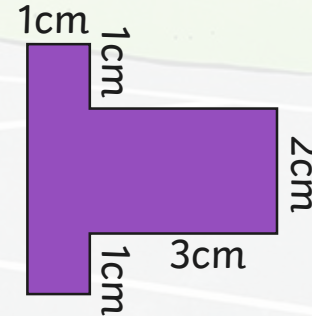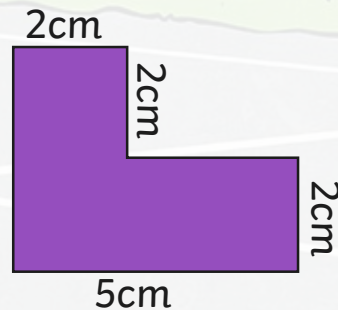
I think shape A has the shorter perimeter because it has fewer sides.

**Do you agree with Raj? Explain your reasoning.**

Raj is incorrect.
Shape A has 6 sides and a perimeter of 18cm.
Shape B has more sides - 8 sides - but its perimeter is 16cm, which is shorter than A's. Comparing the number of sides that shapes have does not tell us which has the longer or shorter perimeter.

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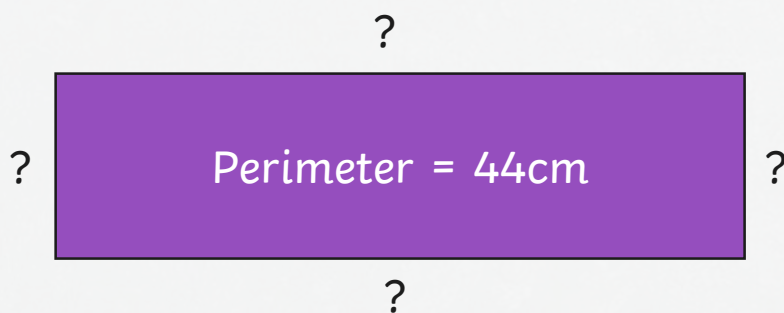How many different rectangles are there with a perimeter of 44cm?

(Each side length needs to be a whole number.)
Find a systematic way of recording the lengths of sides.

?

?   Perimeter = 44cm   ?

?

How many different rectangles are there with a perimeter of 44cm?

(Each side length needs to be a whole number.) Find a systematic way of recording the lengths of sides.
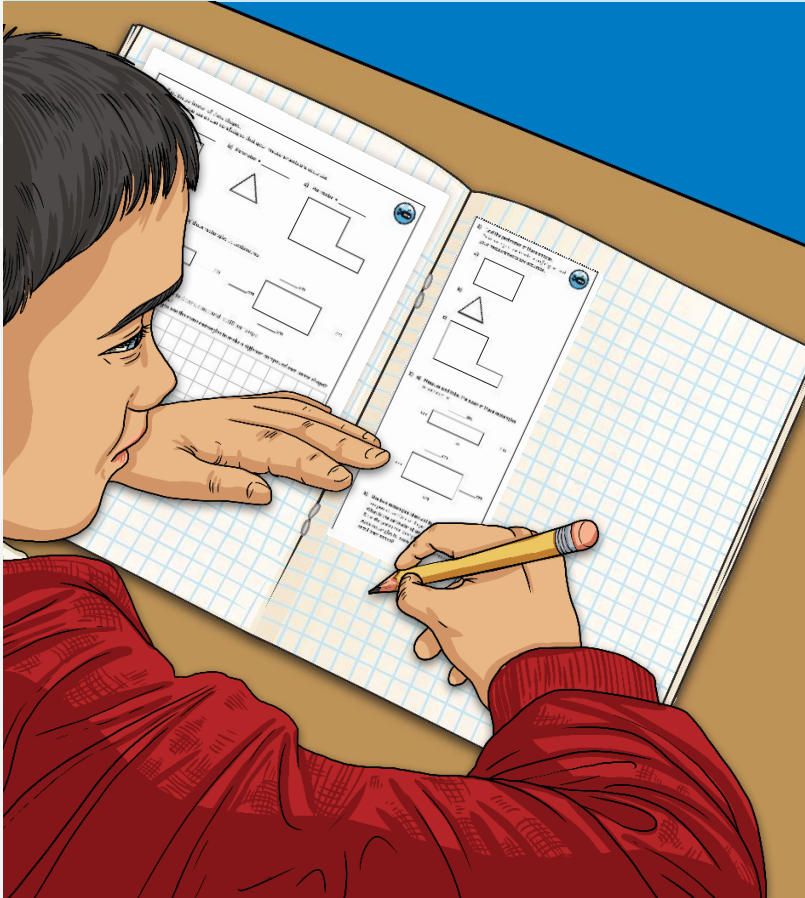
?

?   Perimeter = 44cm   ?

?
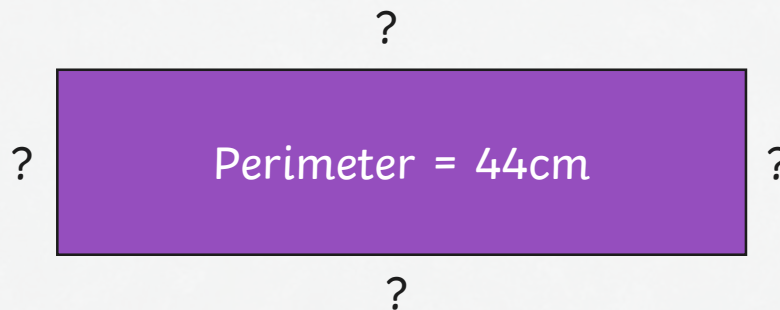
Length	Width
1cm	21cm
2cm	20cm
3cm	19cm
4cm	18cm
5cm	17cm
6cm	16cm
7cm	15cm
8cm	14cm
9cm	13cm
10cm	12cm
11cm	11cm

There are 11 different rectangles (including a square, which is a special kind of rectangle) with a perimeter of 44cm.

Dive in by completing your own activity!