

Diving into Mastery



# Measure Perimeter

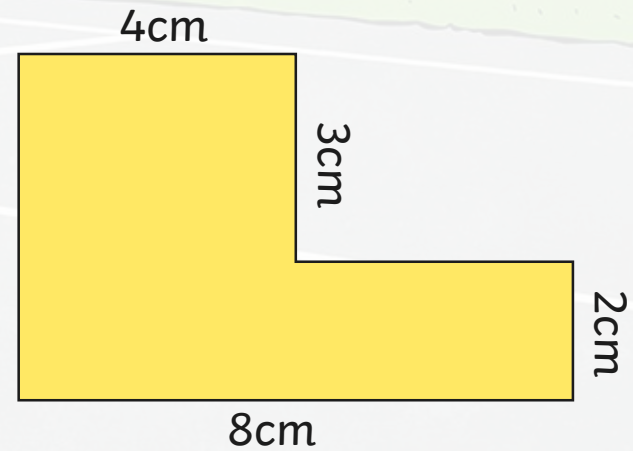
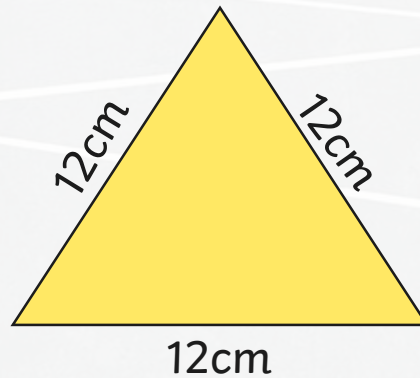
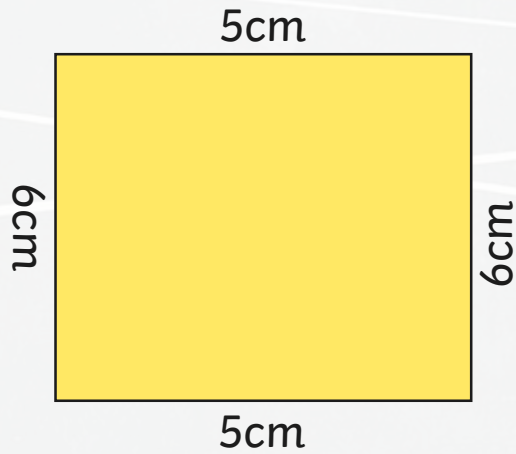
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# Aim

- 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.



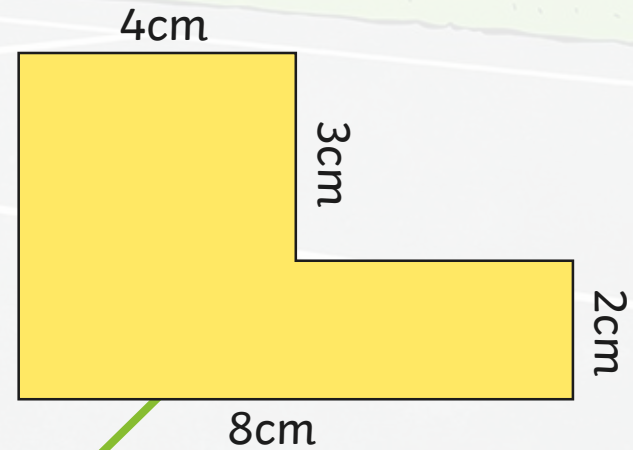
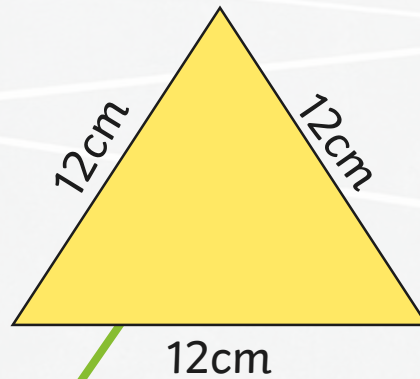
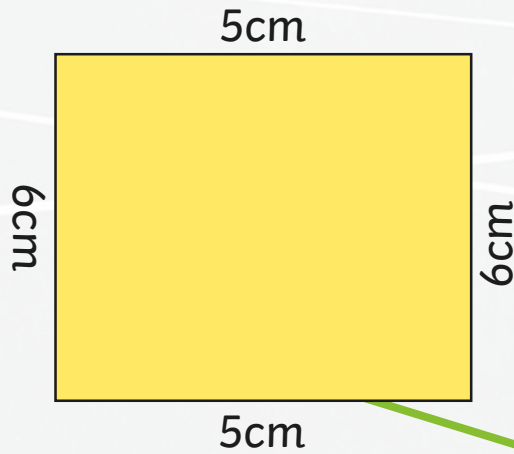
36cm

26cm

22cm



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



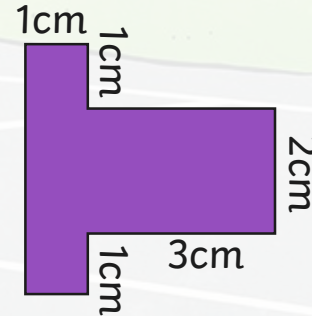
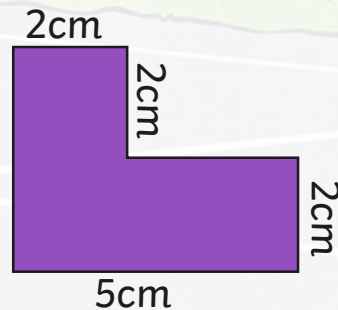
36cm

26cm

22cm



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



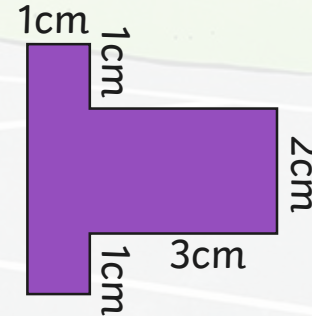
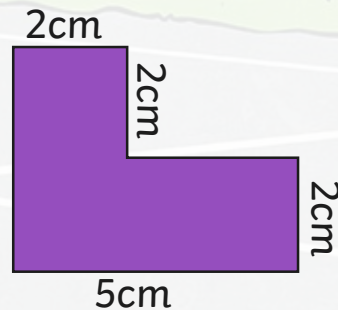
I think shape A has the shorter perimeter because it has fewer sides.

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





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



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

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

Raj is incorrect.

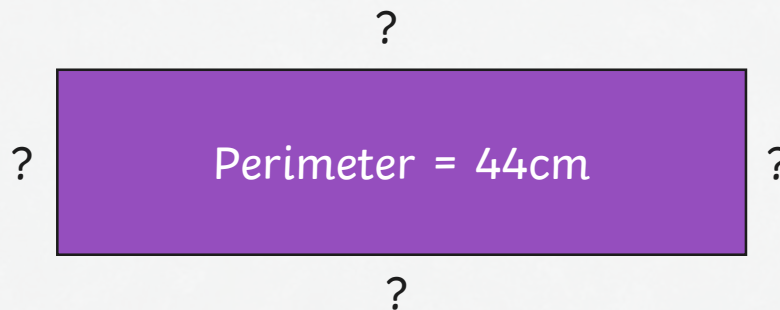
Shape A has 6 sides and a perimeter of 18cm.

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.



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

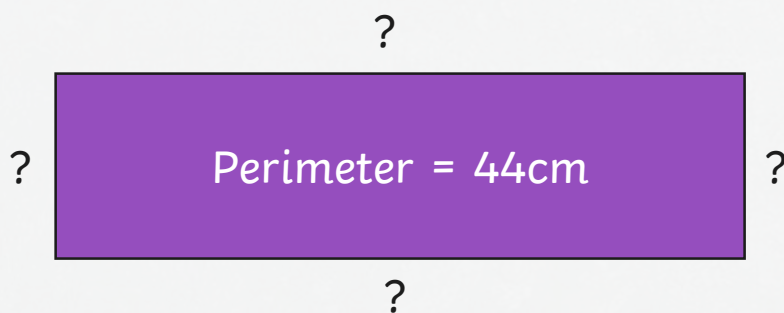
(Each side length needs to be a whole number.)  
Find a systematic way of recording the lengths of sides.





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



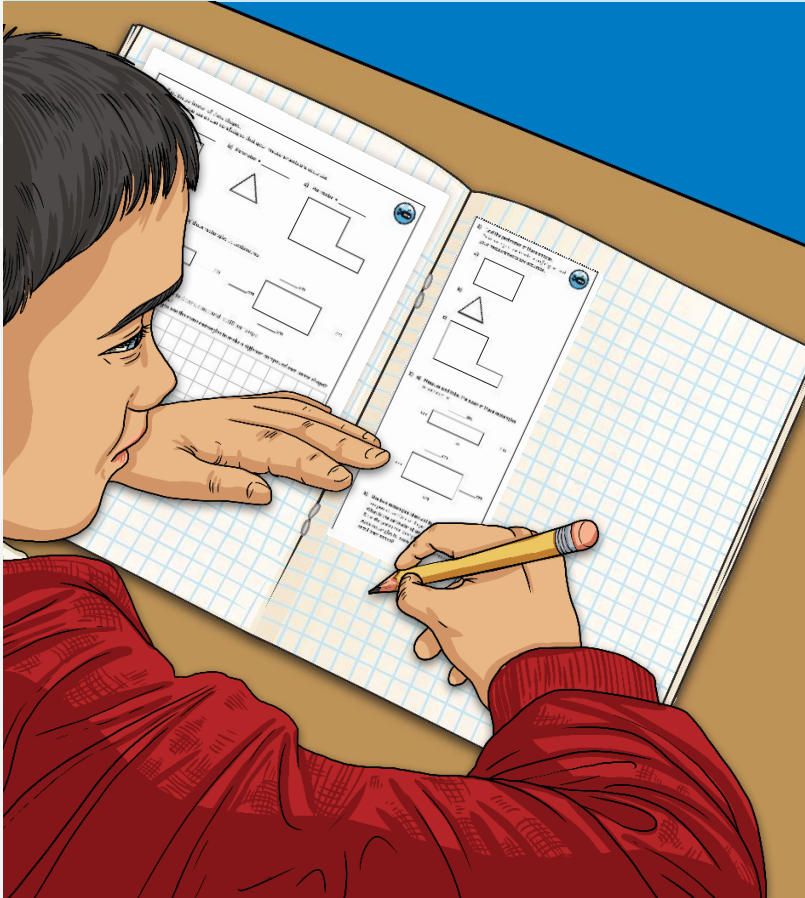
| Length | Width |
|--------|-------|
| 1cm    | 21cm  |
| 2cm    | 20cm  |
| 3cm    | 19cm  |
| 4cm    | 18cm  |
| 5cm    | 17cm  |
| 6cm    | 16cm  |
| 7cm    | 15cm  |
| 8cm    | 14cm  |
| 9cm    | 13cm  |
| 10cm   | 12cm  |
| 11cm   | 11cm  |

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



# Measure Perimeter

Dive in by completing your own activity!



1) How many sides does a square have? Do you know the perimeter of a square?

2) Here is the plan of a farm. The farm electric fence is shown. Find all the multiples of 10 that are less than 100. Find a sign for the farm.

1) Find the perimeter of these shapes. Make sure you use a ruler carefully so that your measurements are accurate.

a) Perimeter = \_\_\_\_\_ b) Perimeter = \_\_\_\_\_ c) Perimeter = \_\_\_\_\_

2) a) Measure and label the sides of these rectangles in centimetres.

b) Use two rectangles identical to these to draw a compound rectilinear shape. What is the perimeter of your shape? Does the perimeter change when you use the same rectangles to make a different compound rectilinear shape?

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