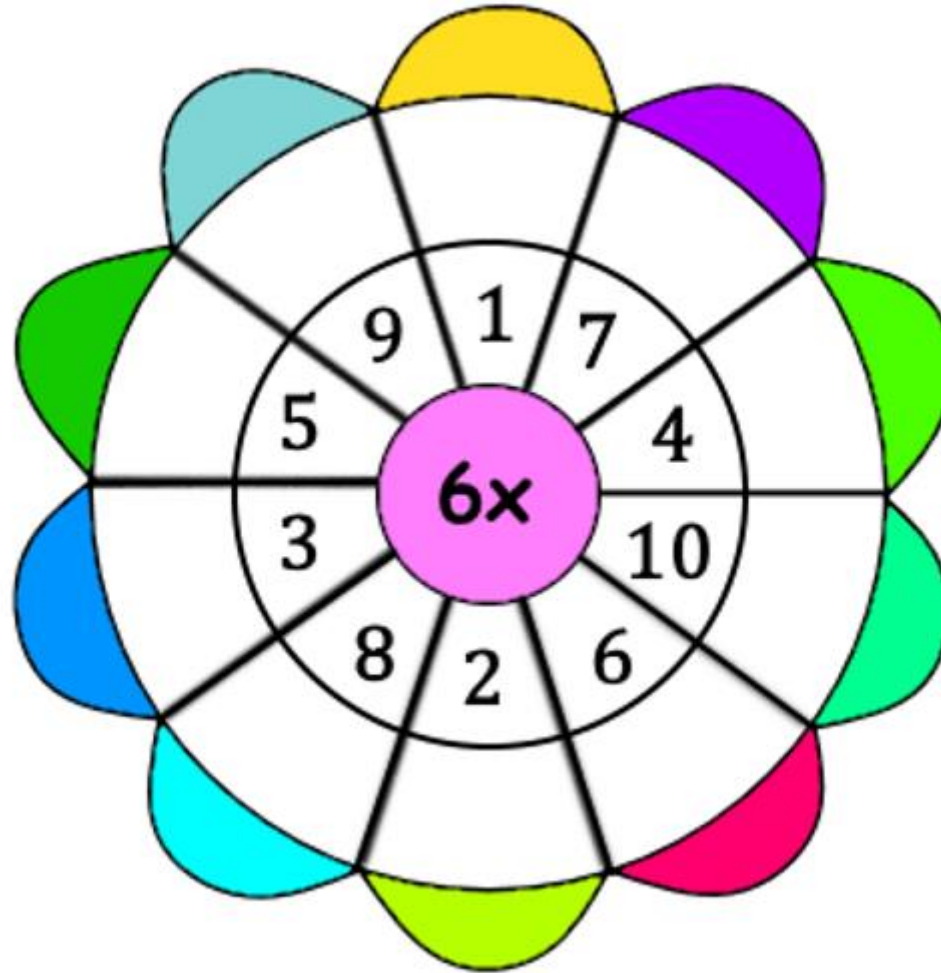


LO: To be able to find the perimeter.

WARM UP!

Multiplication Flower



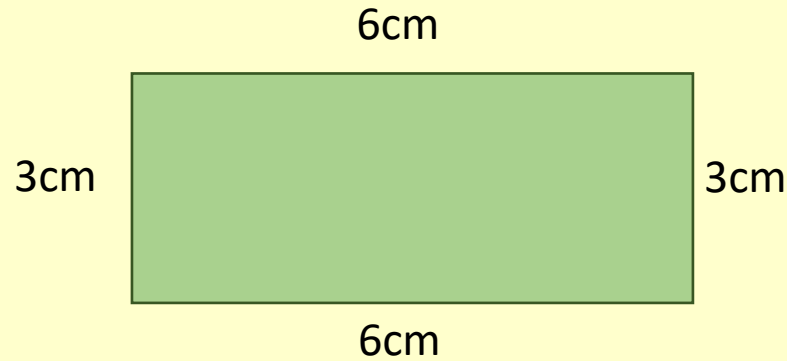
What is perimeter?

What is perimeter?

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.

Look at the shape below. To work out the perimeter we can use two main methods.



1. We can add!

Add up all of the sides of the shape.

$$6 + 3 + 6 + 3 = 18\text{cm}$$

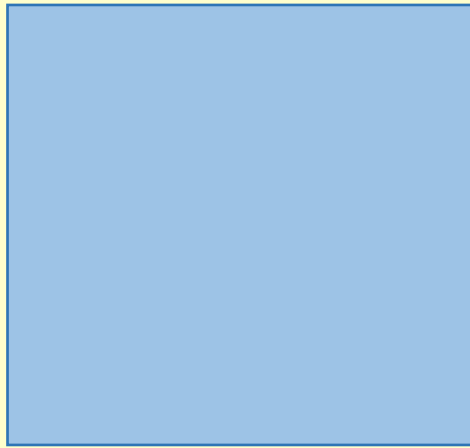
2. We can multiply and add!

If there are multiple sides the same length you can times by how many there are.

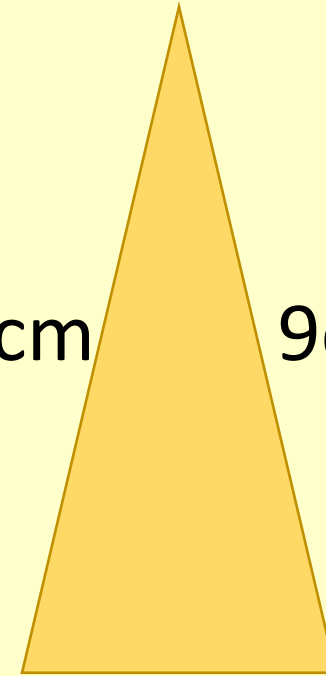
$$6 \times 2 = 12 + 3 \times 2 = 6$$

$$12 + 6 = 18\text{cm.}$$

**Your turn,
Can you work out the perimeter of these shapes?
Show me both methods if you can.**



4cm

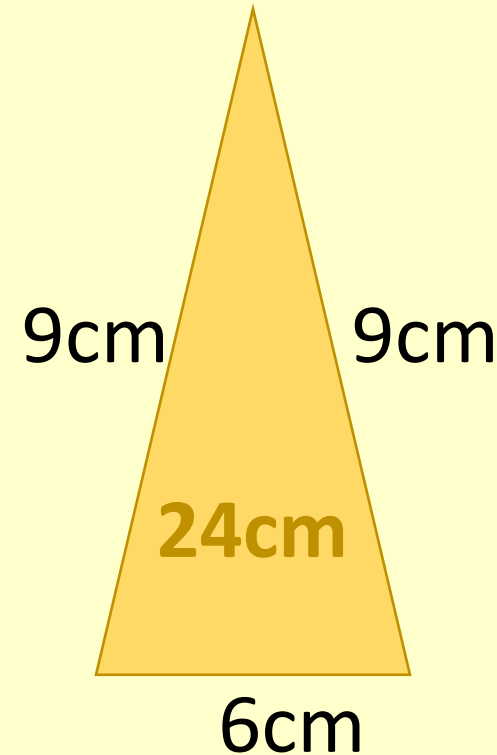
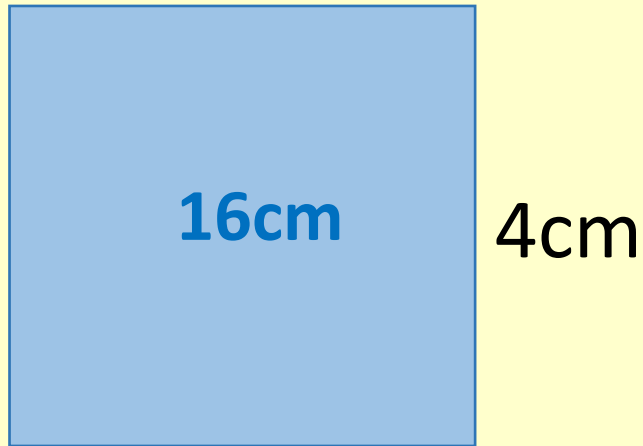


9cm

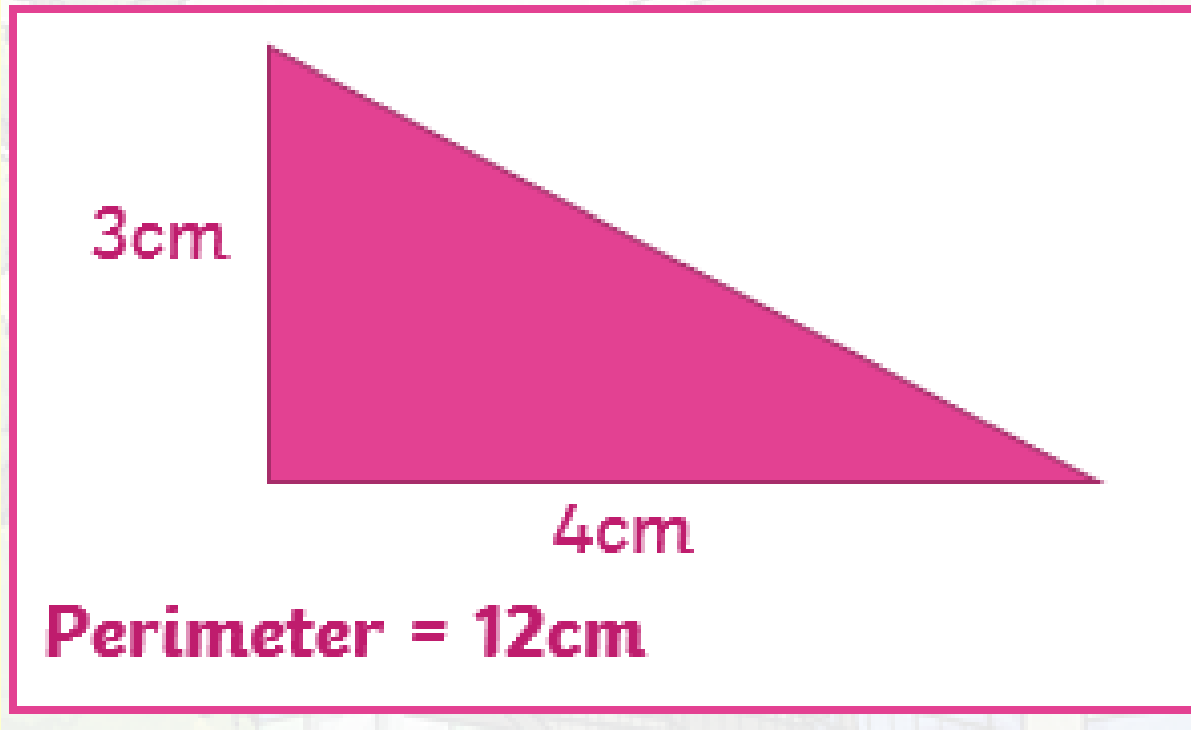
9cm

6cm

**Your turn,
Can you work out the perimeter of these shapes?
Show me both methods if you can.**



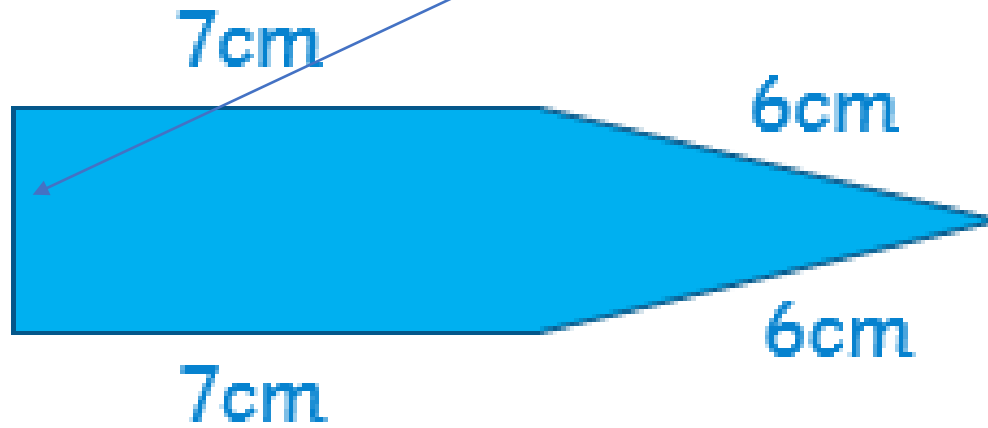
Now, let's try a challenge.
We can find the missing length by taking away the sides we know from the given perimeter.



$$12 - 4 - 3 = \underline{5\text{cm.}}$$

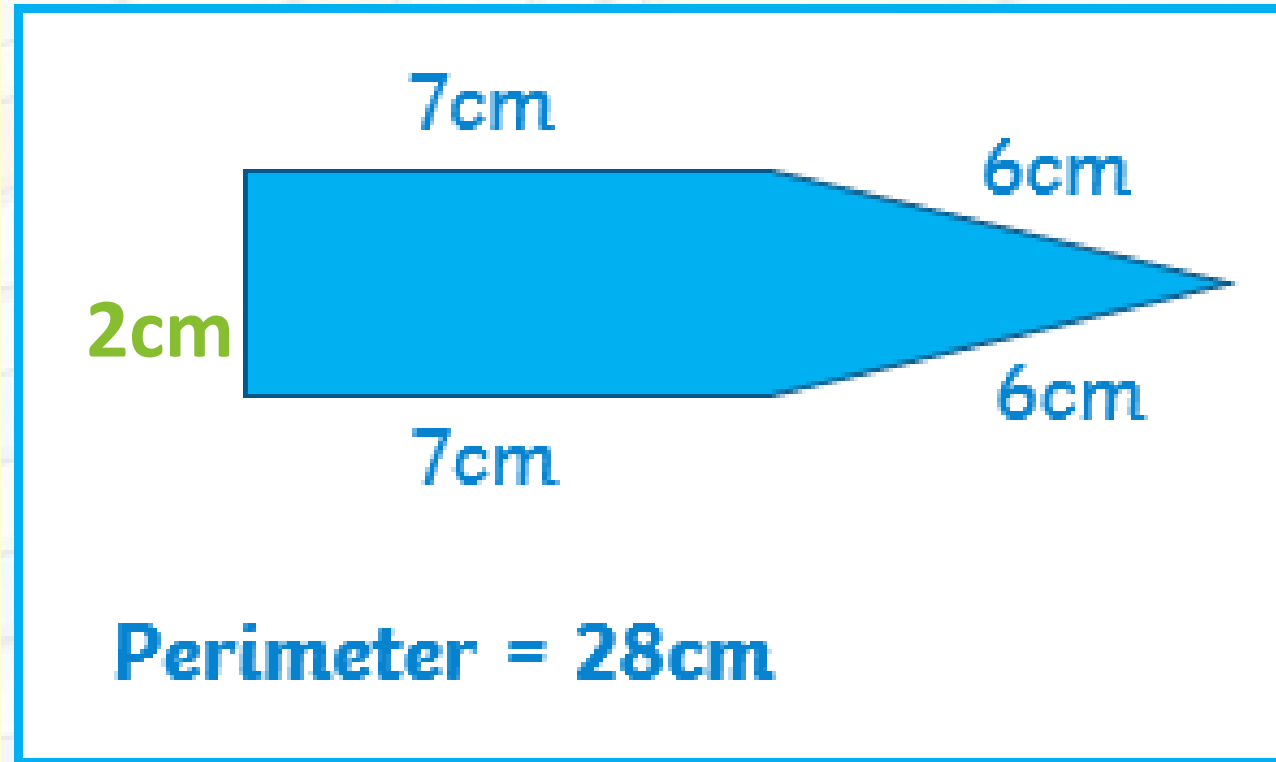
Remember you always need to write down your measurement.

**Your turn,
Can you find the missing length?**



Perimeter = 28cm

**Your turn,
Can you find the missing length?**



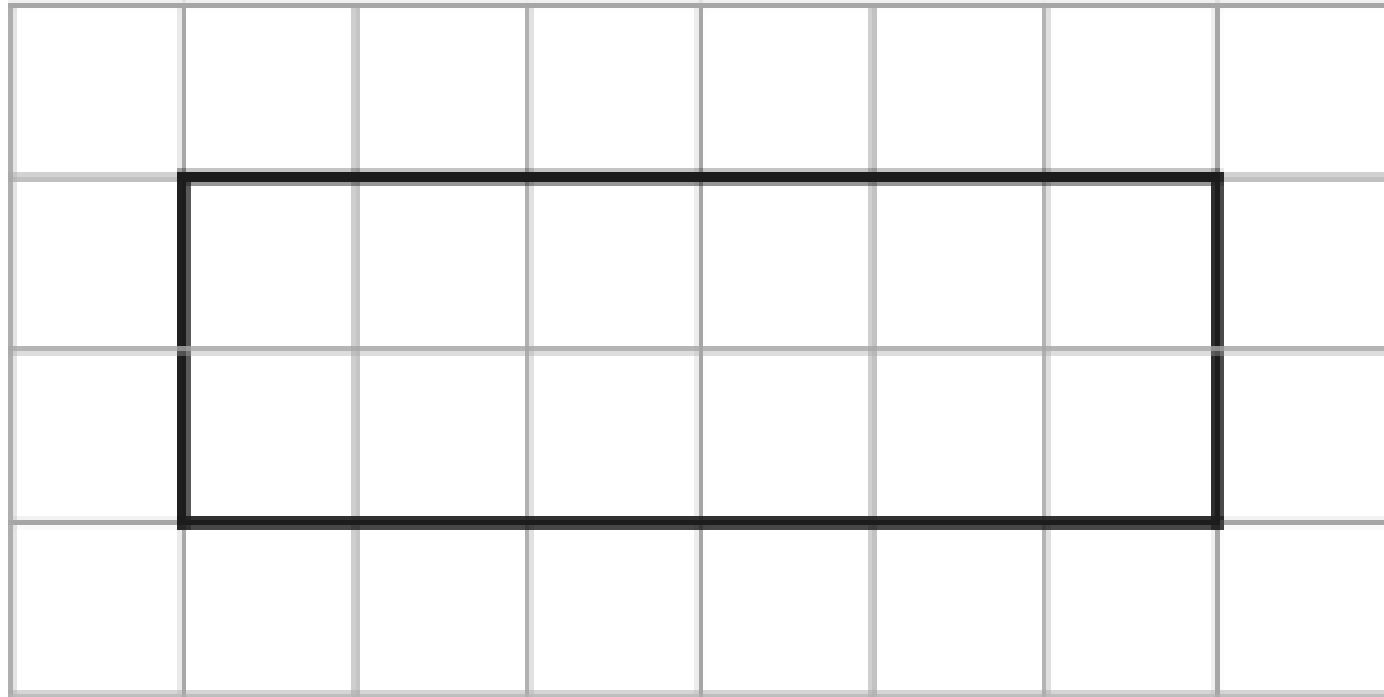
Were you correct?

Well done Year 3's!
Now you can start your worksheet!

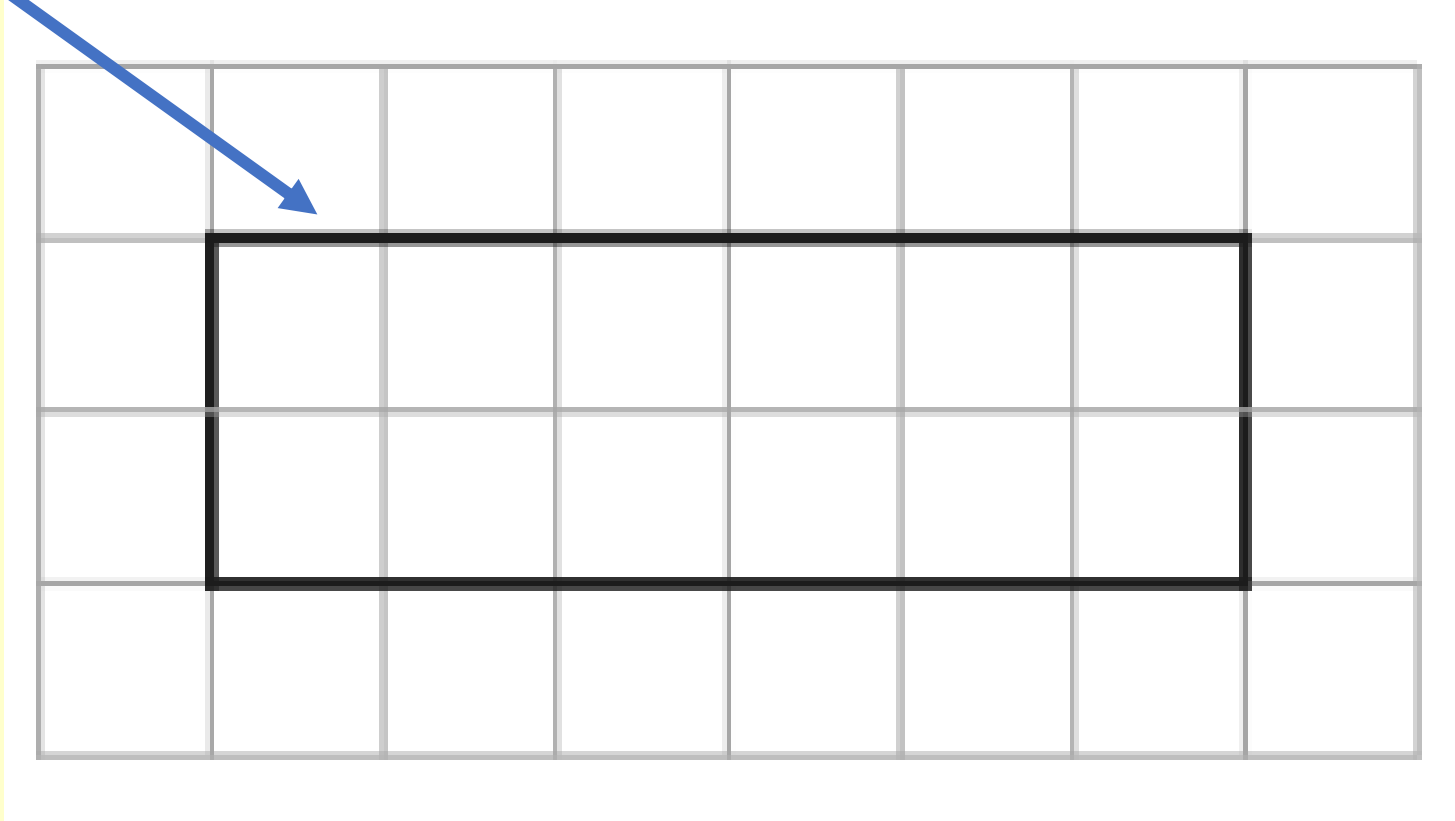
Year 4's we will work on!
You need to find perimeter using a grid.

Let's have a look...

Miss Strachan has drawn a shape on squared paper. We need to find the perimeter of this shape. But first we need to show our working out and write down the length of the sides.

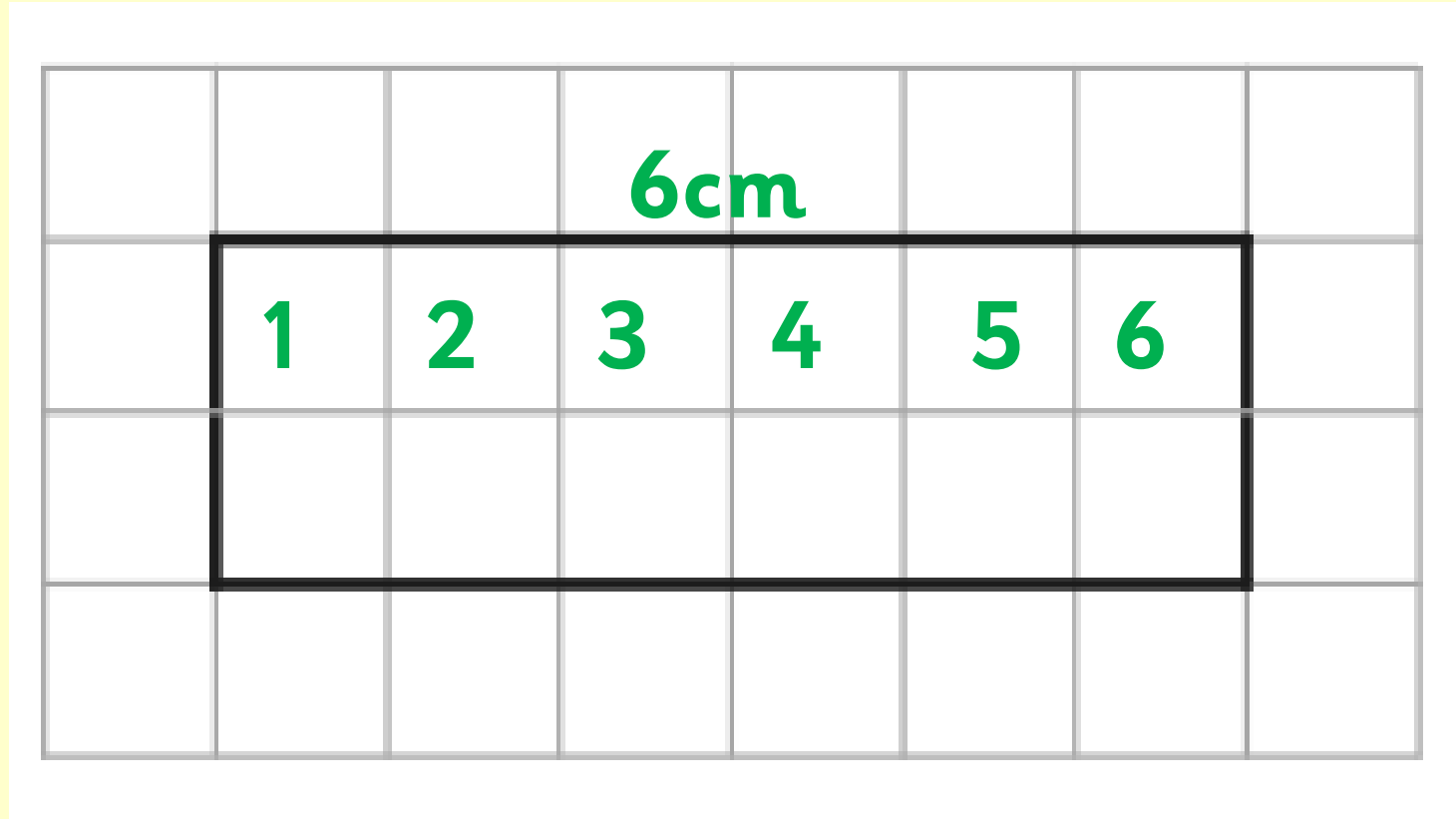


Look at each of the sides carefully. We will start with this one.



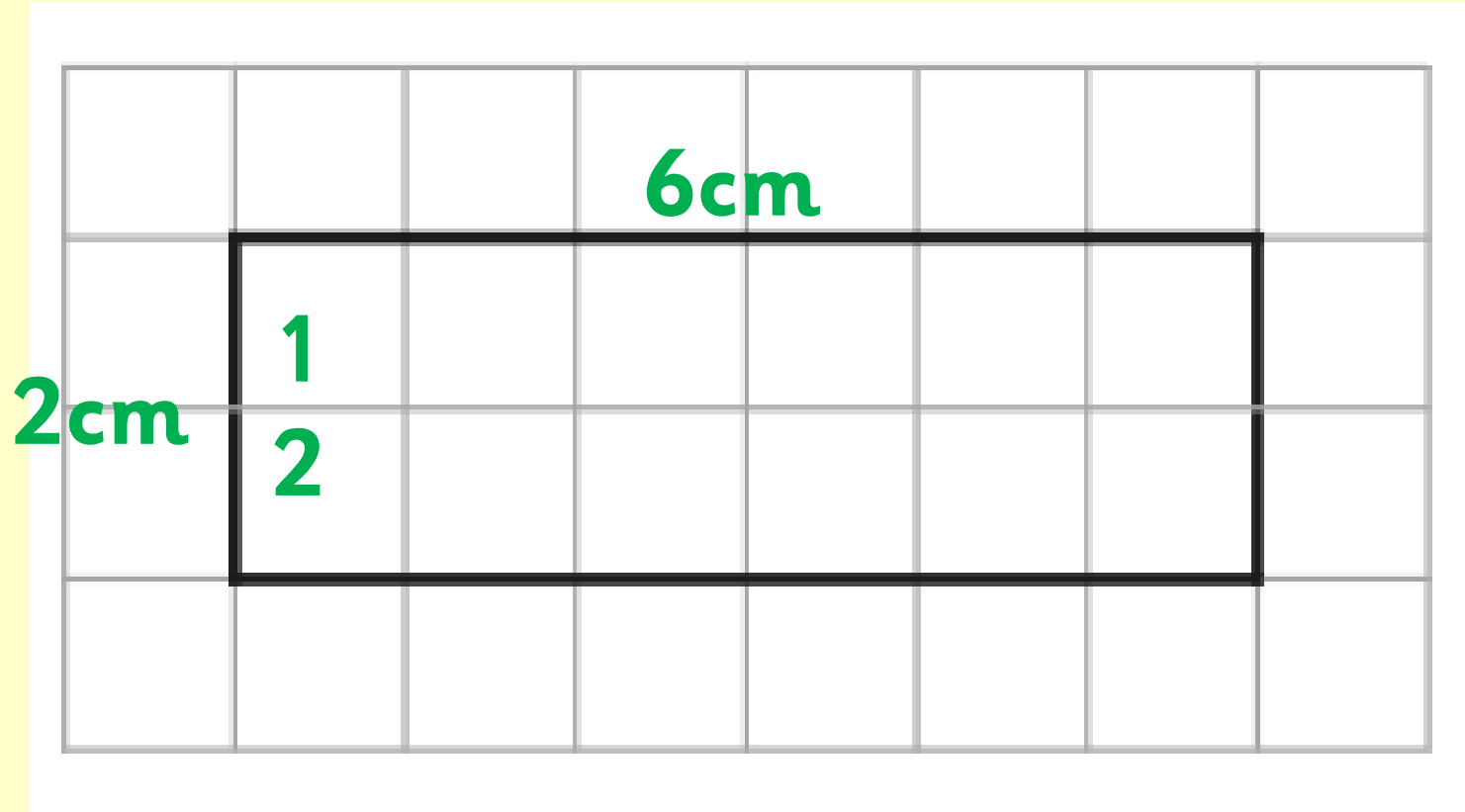
We need to count the squares that touch that length.

Look at each of the sides carefully.

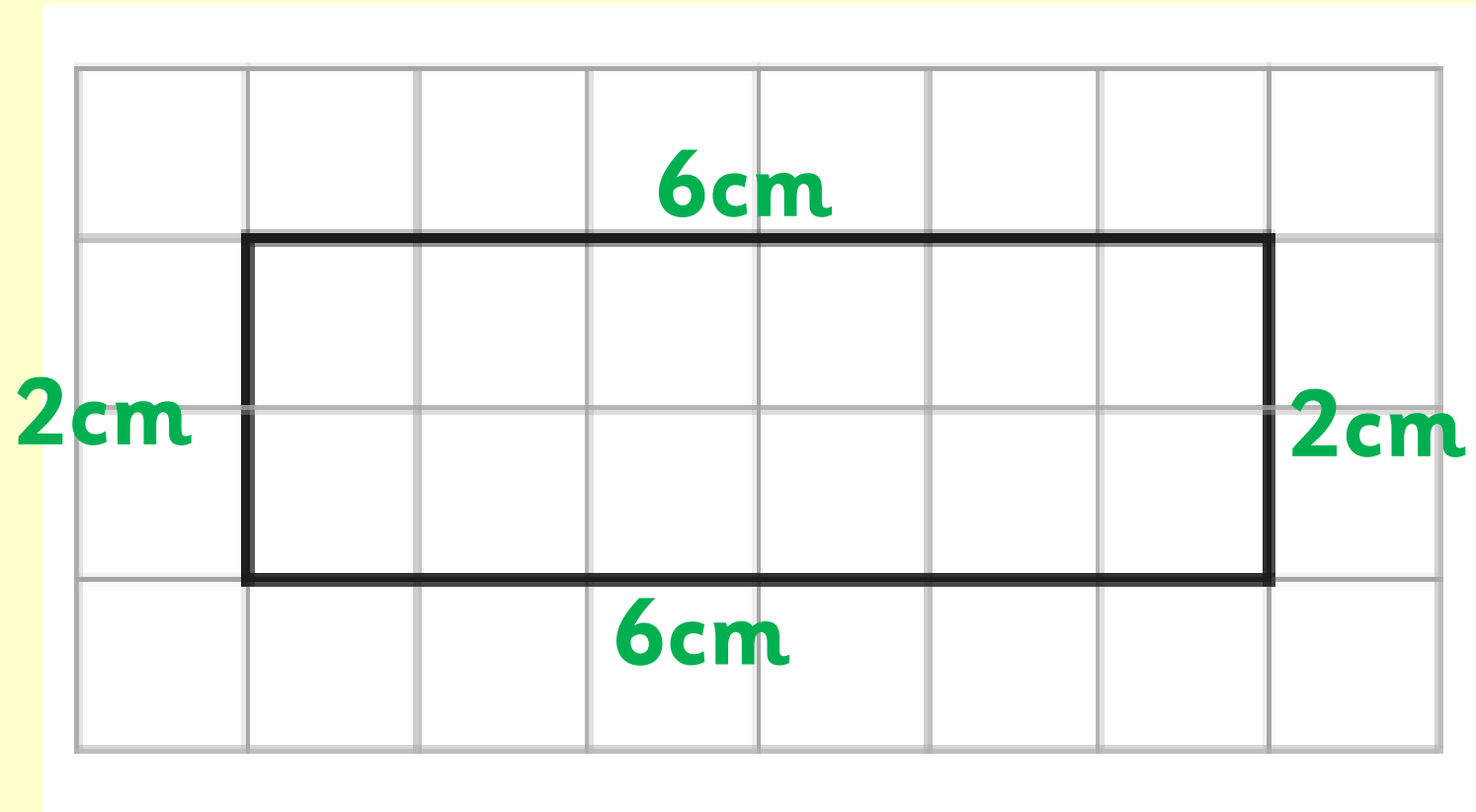


There are 6 squares touching the line. So we write above 6cm.

You need to do this for all of the sides. Please show your working out.



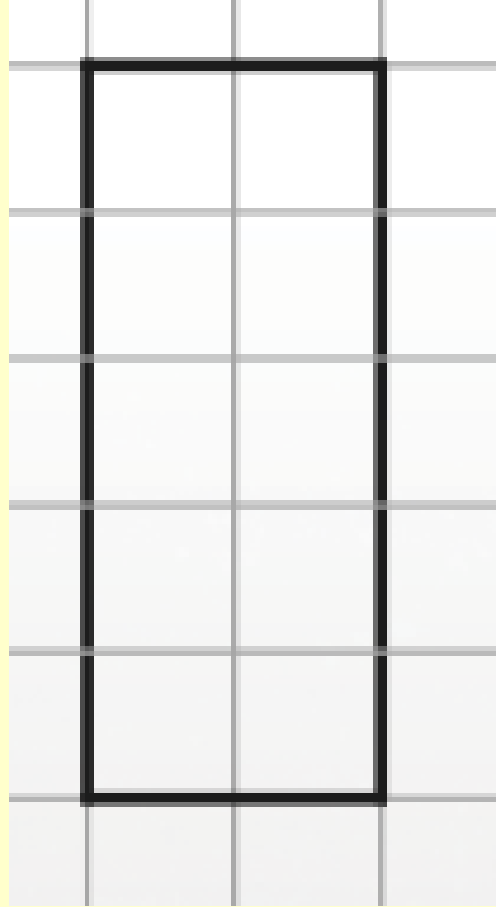
You need to do this for all of the sides. Please show your working out.



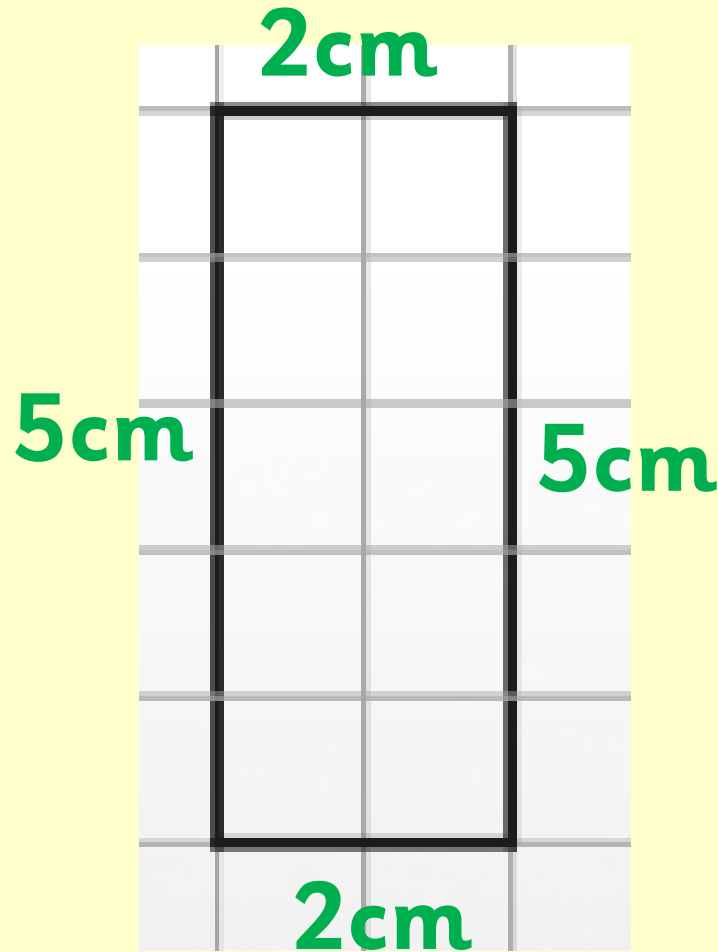
Once you have labelled the lengths you can then find the perimeter.

= 16cm

**Your turn,
Can you find the perimeter? Please show your working
out.**

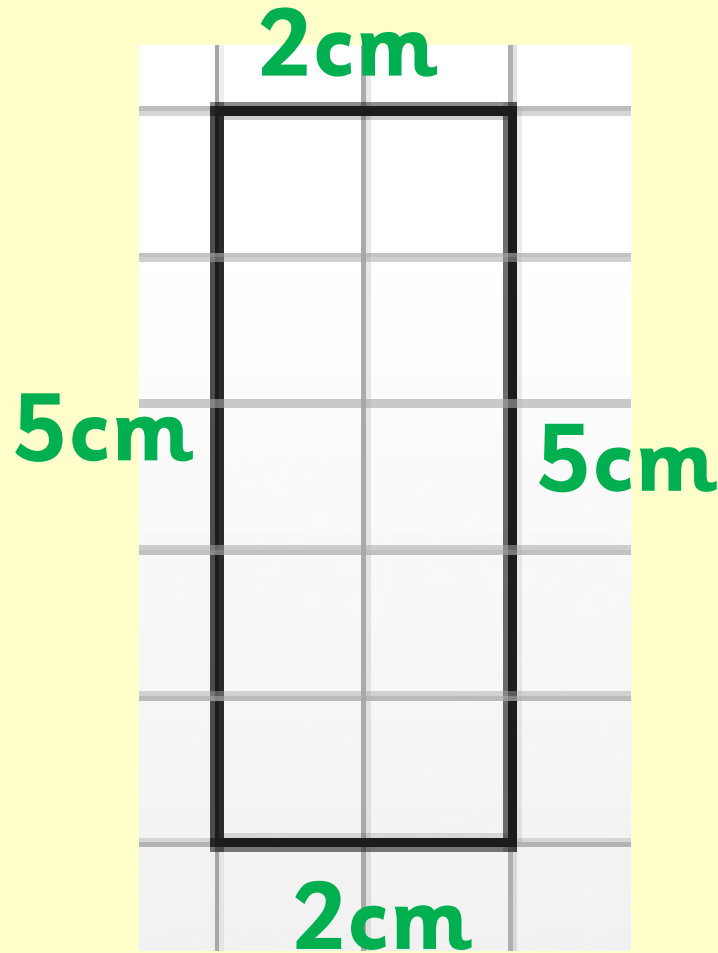


**Your turn,
Can you find the perimeter? Please show your working
out.**



**P = 14cm
Were you correct?**

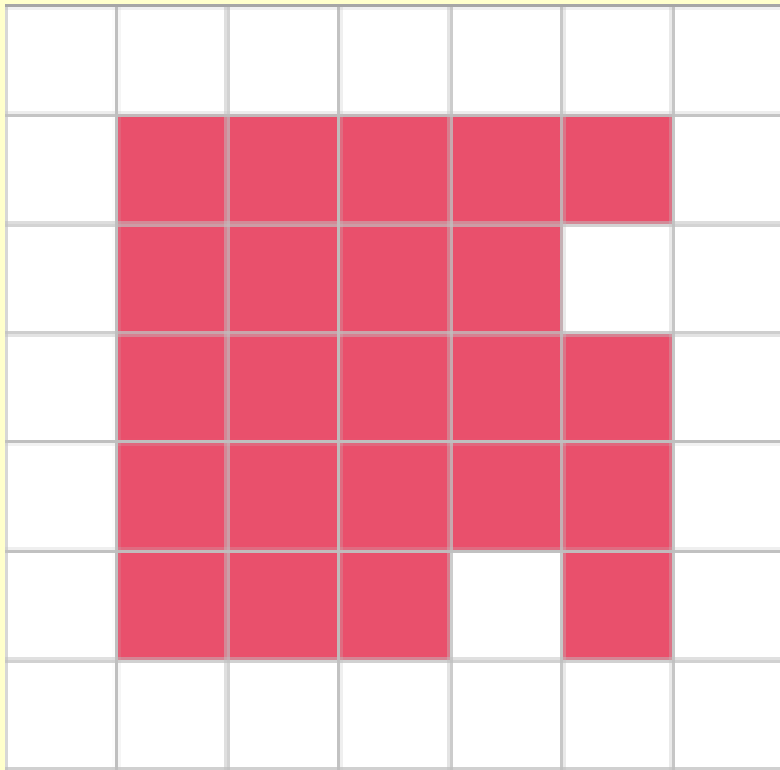
**Your turn,
Can you find the perimeter? Please show your working
out.**



**$P = 14\text{cm}$
Were you correct?**

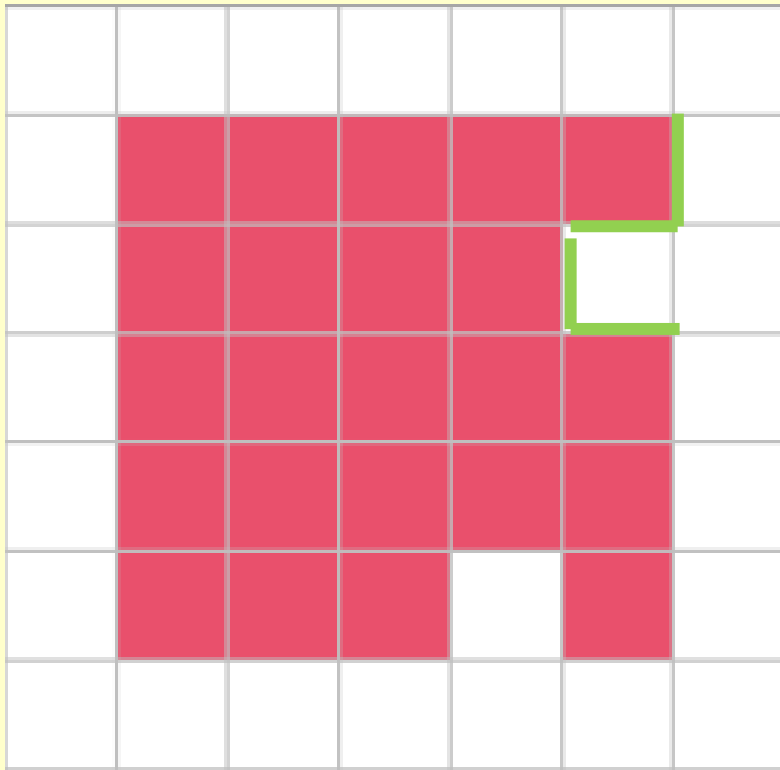
Great! Now start your worksheet!

Challenge: Remember with shapes like this you need to add up *ALL* the sides.



Great! Now start your worksheet!

Challenge: Remember with shapes like this you need to add up *ALL* the sides.



Even all those small sides are 1cm and need to be added!

If you're not sure, use a coloured pencil and colour the sides you have added.