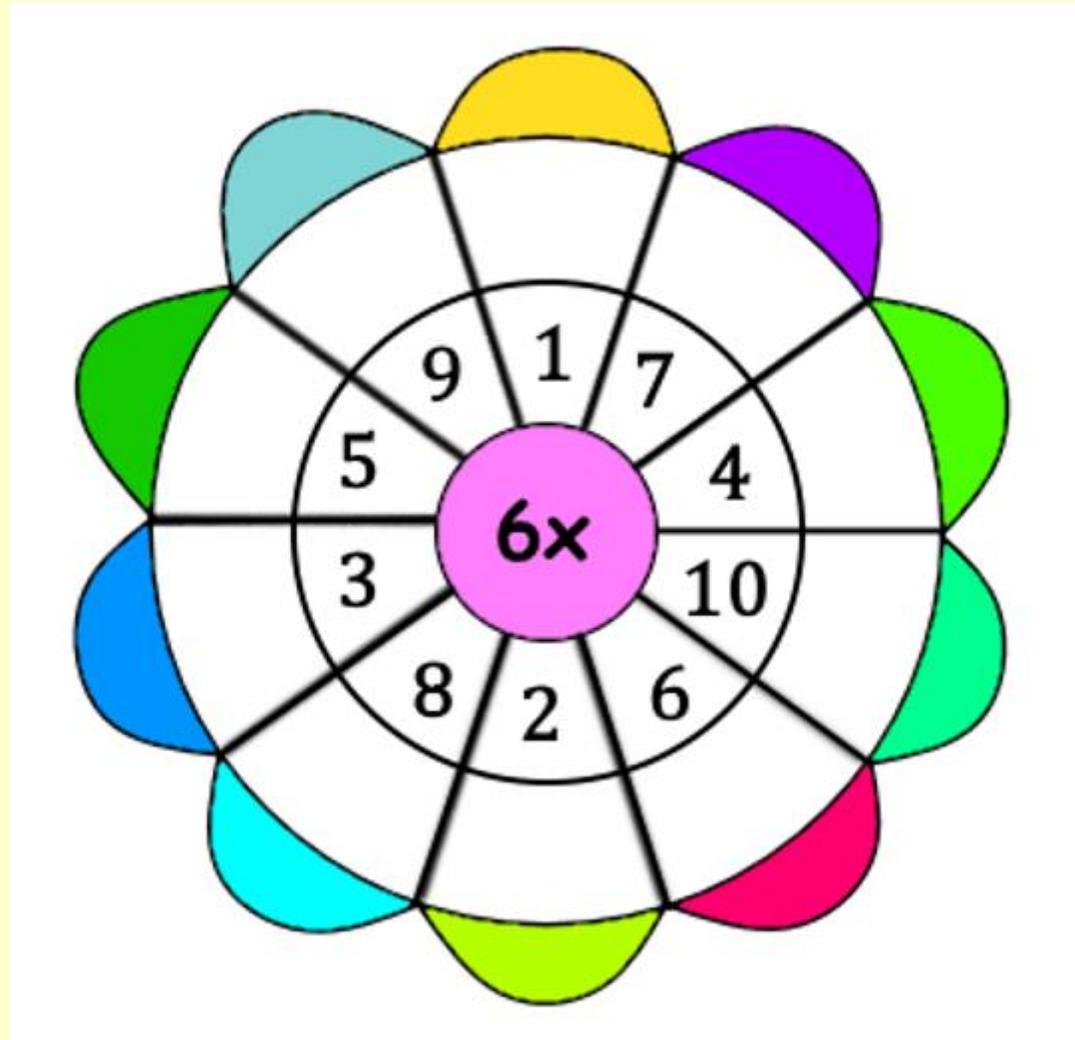


**LO: To be able to find the perimeter.**

# WARM UP!

## Multiplication Flower



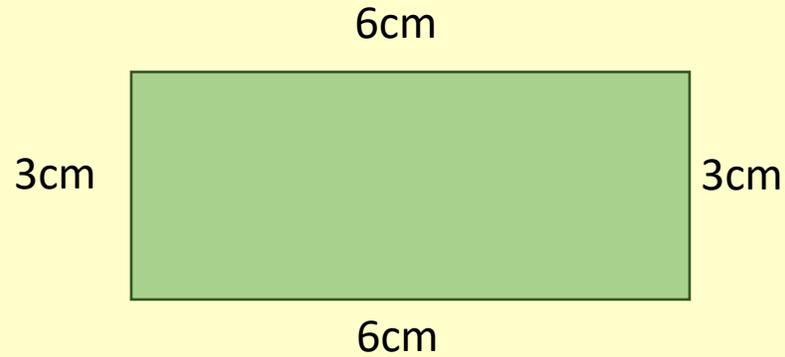
**What is perimeter?**

# 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.**

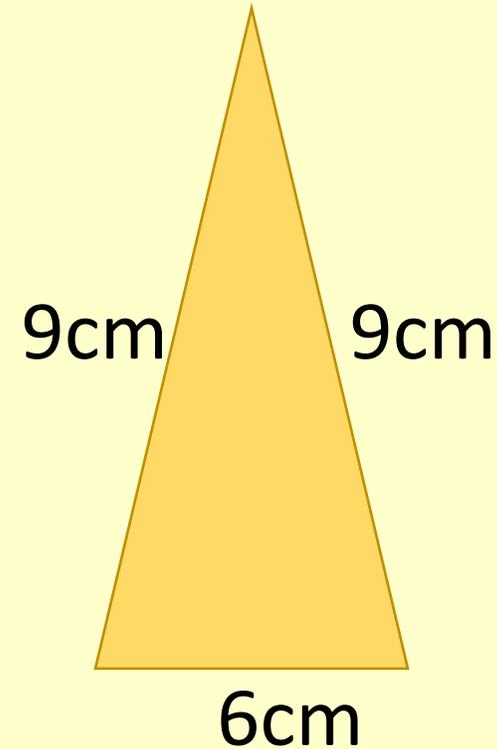
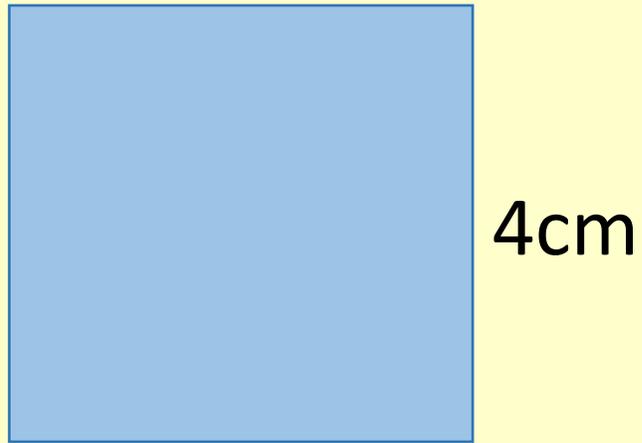
$$6 + 3 + 6 + 3 = 18\text{cm}$$

**2. We can multiply and add!**  
**If there are multiple sides the same length you can times by how many there are.**

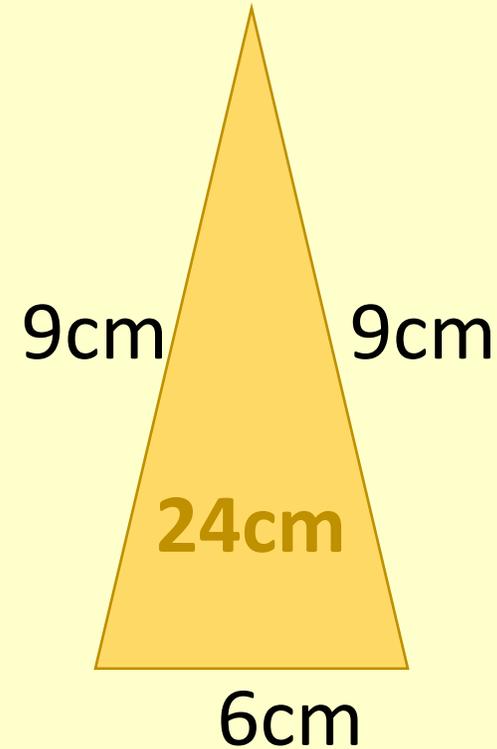
$$6 \times 2 = 12 + 3 \times 2 = 6$$

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

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

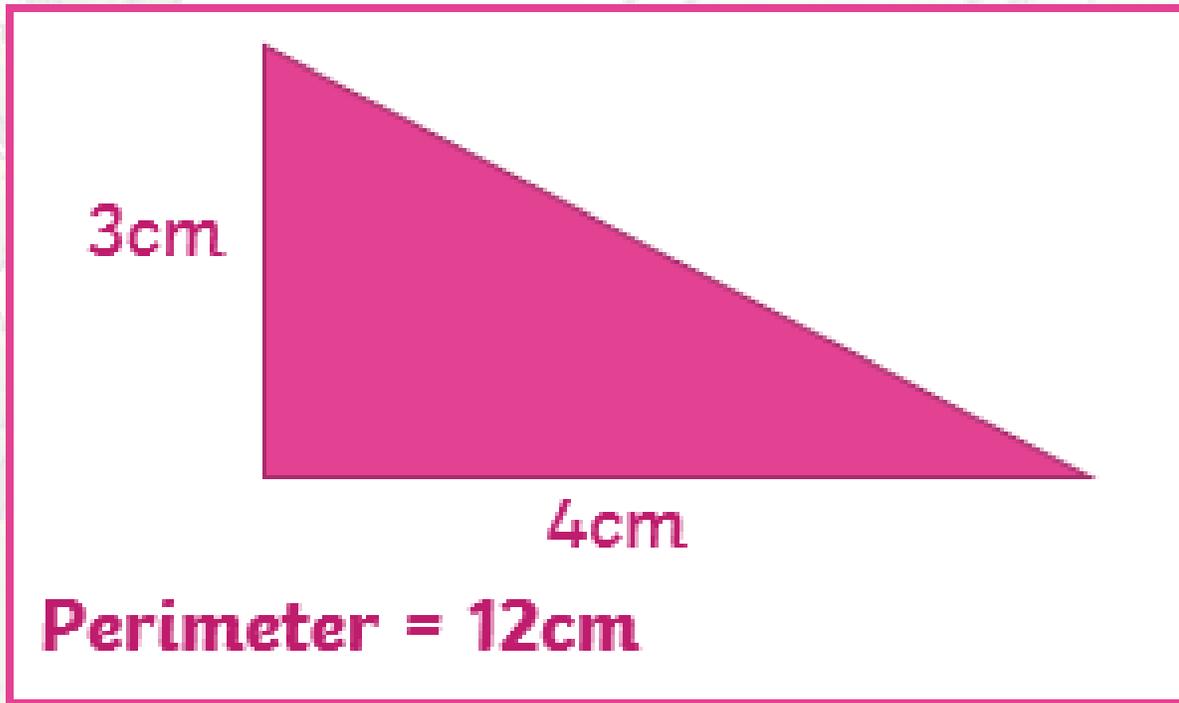


**Your turn,  
Can you work out the perimeter of these shapes?  
Show me both methods if you can.**



Now, let's try a challenge.

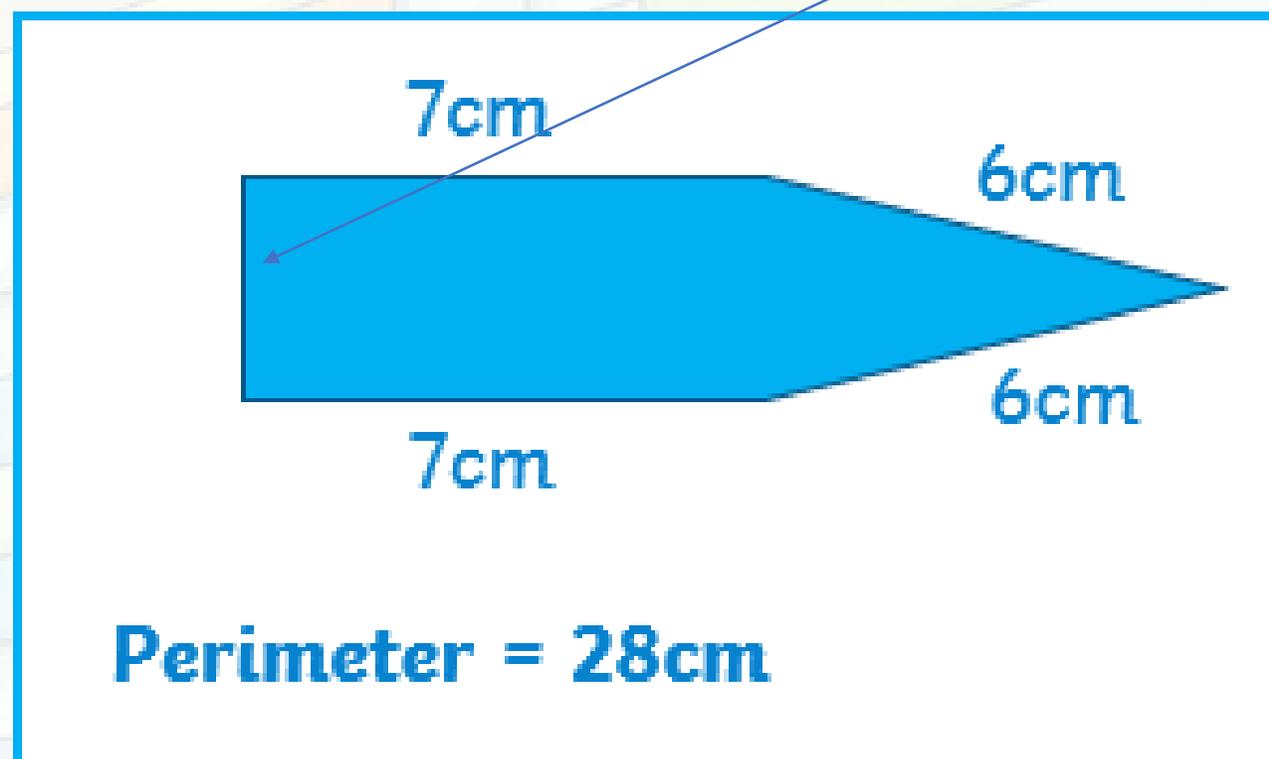
We can find the missing length by taking away the sides we know from the given perimeter.



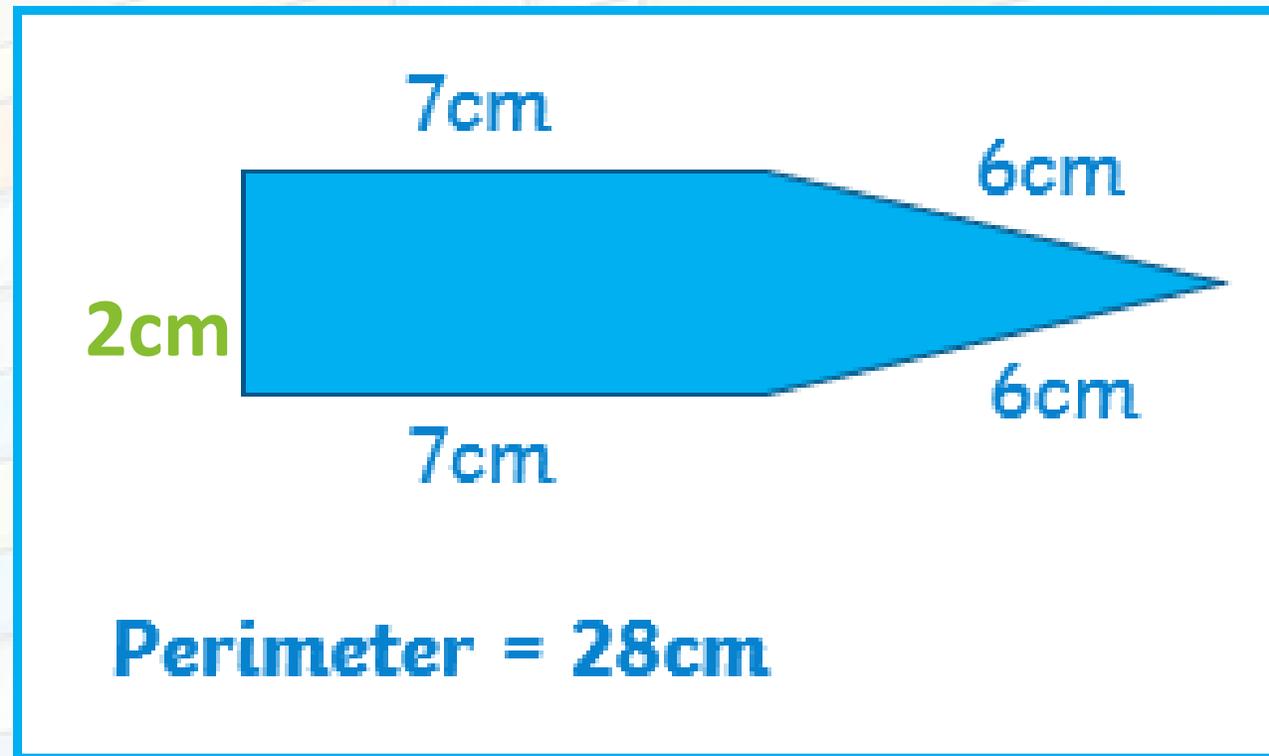
$$12 - 4 - 3 = \underline{5\text{cm.}}$$

Remember you always need to write down your measurement.

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



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



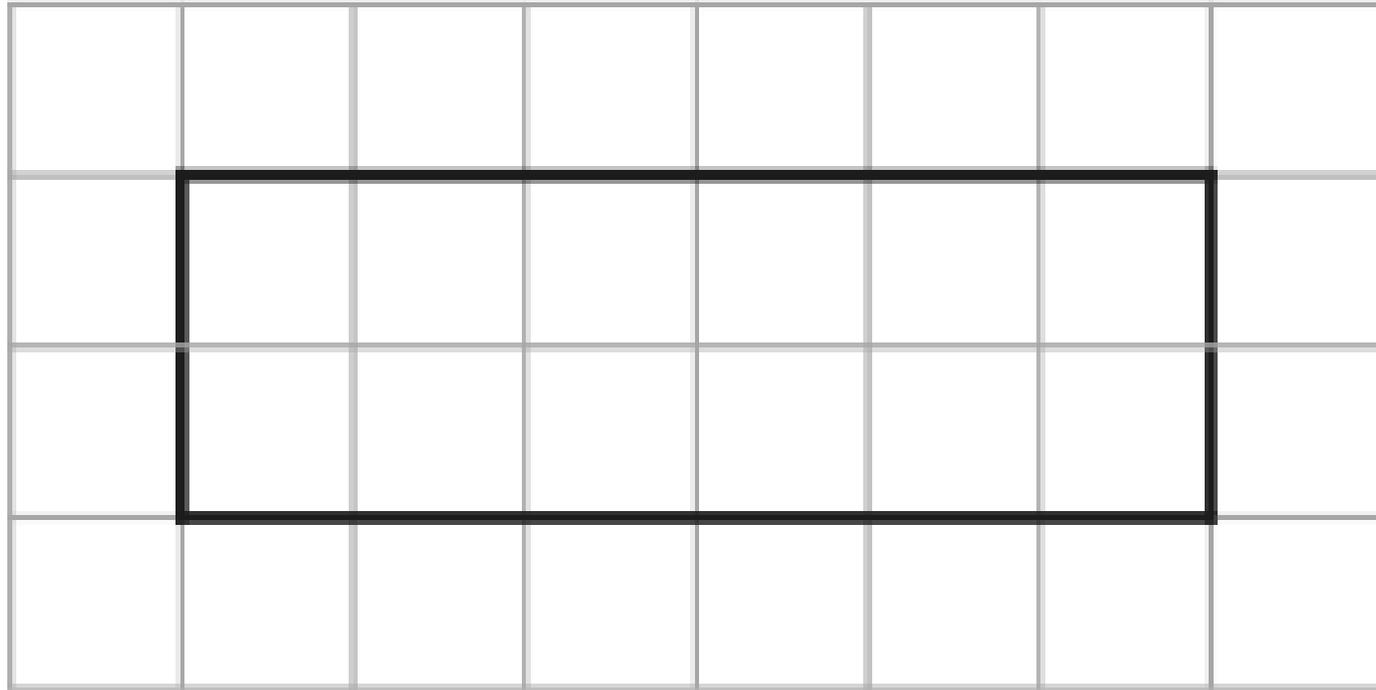
**Were you correct?**

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

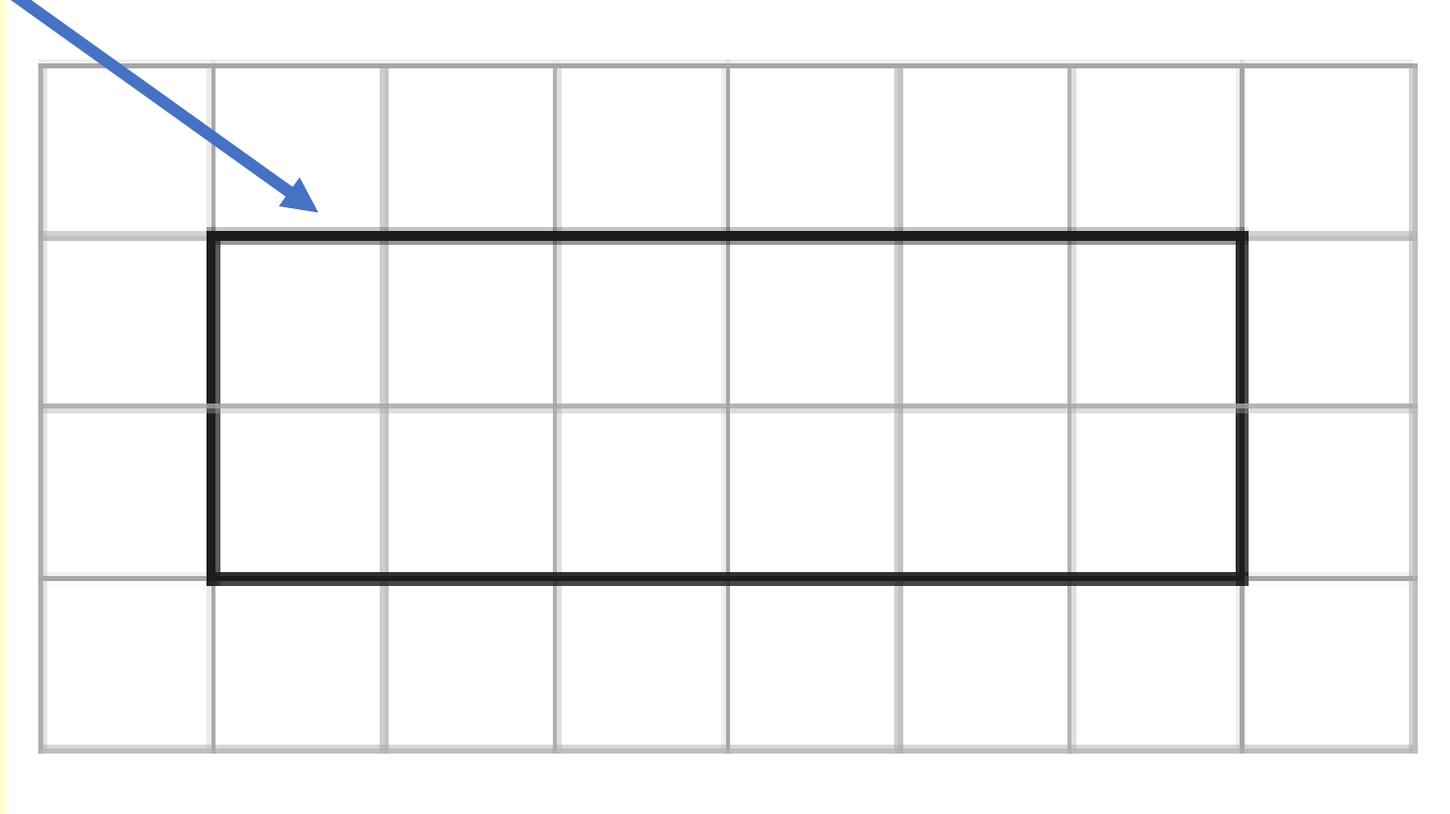
**Year 4's we will work on!**  
**You need to find perimeter using a grid.**

**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.**

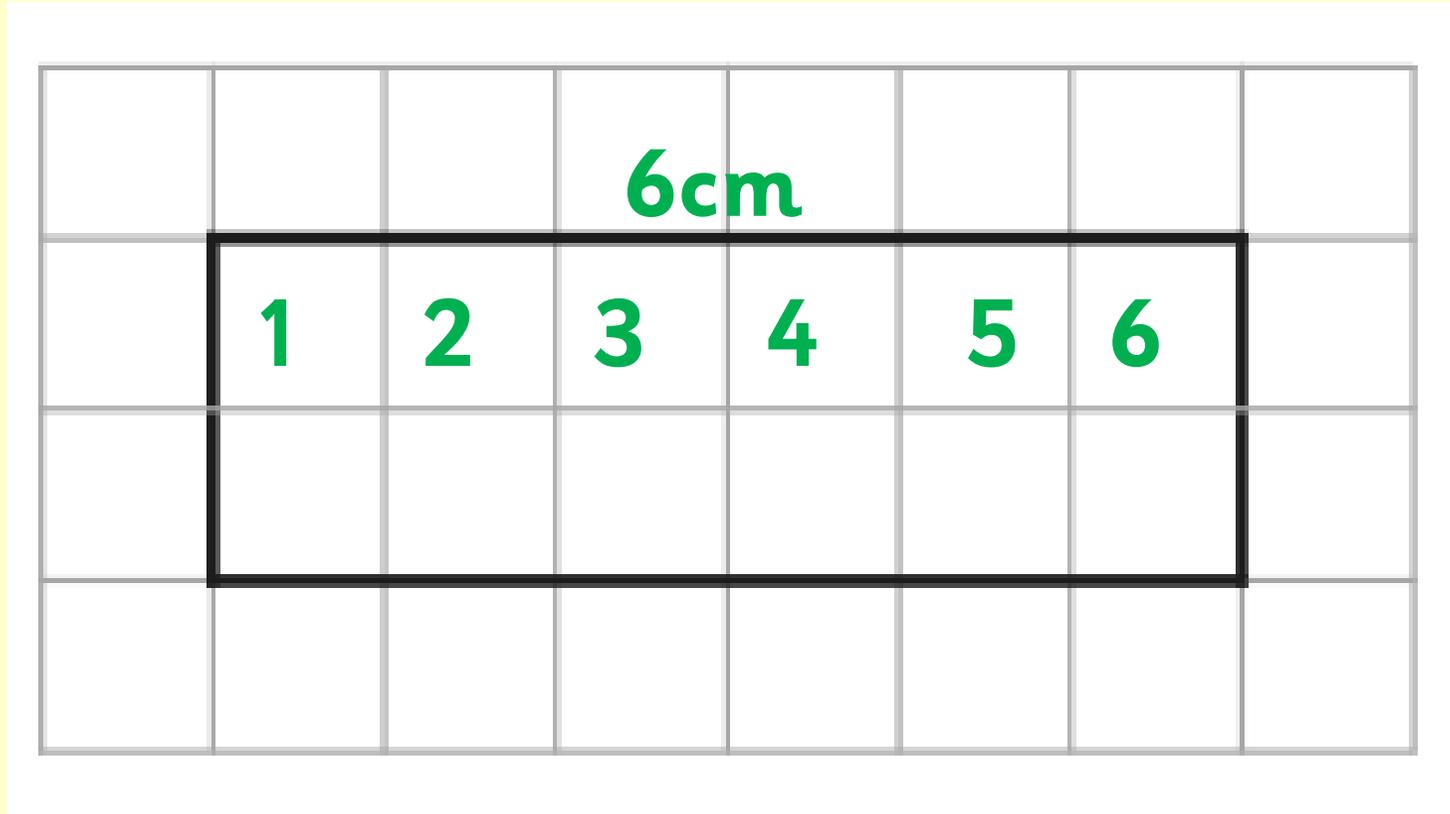


**Look at each of the sides carefully. We will start with this one.**



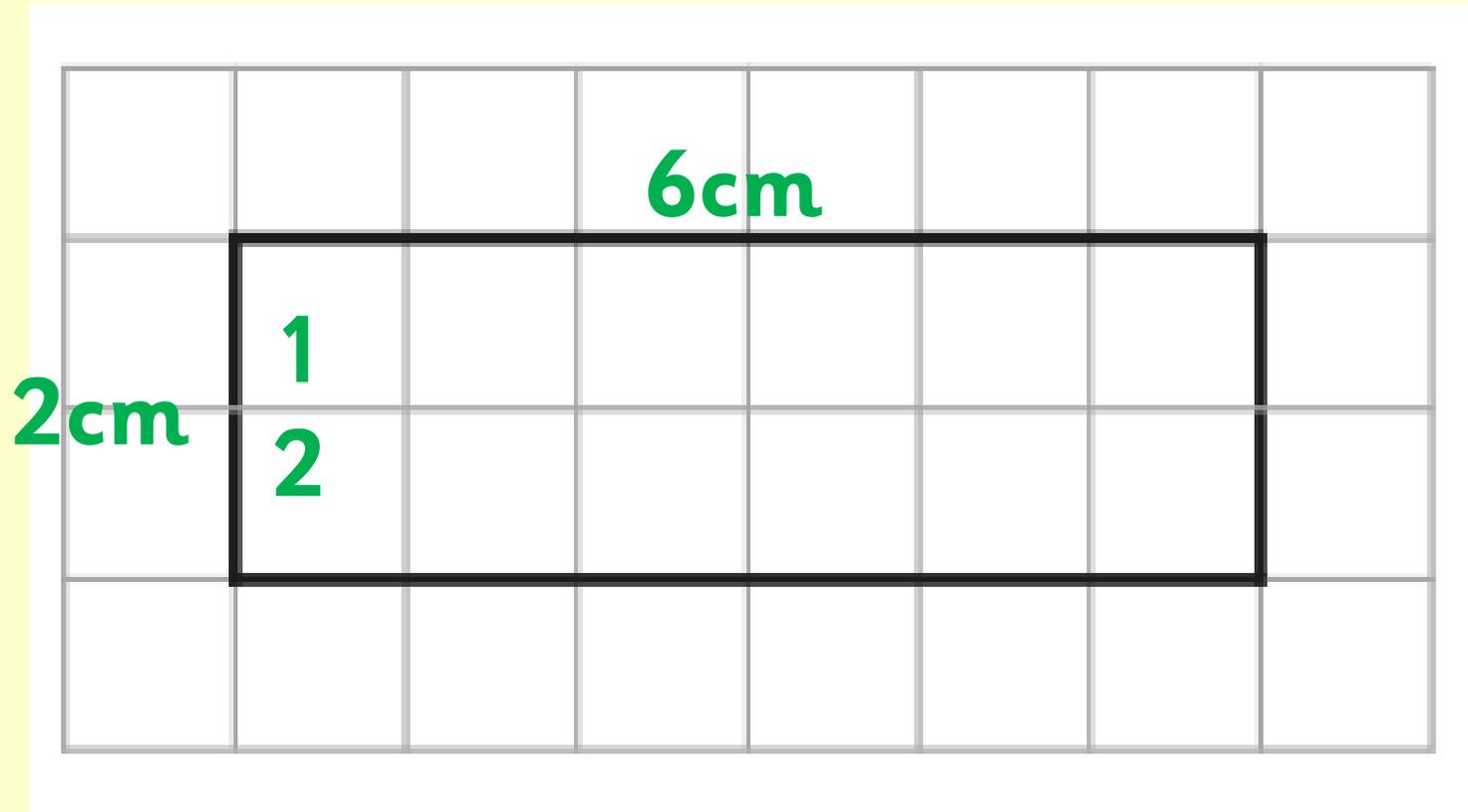
**We need to count the squares that touch that length.**

**Look at each of the sides carefully.**

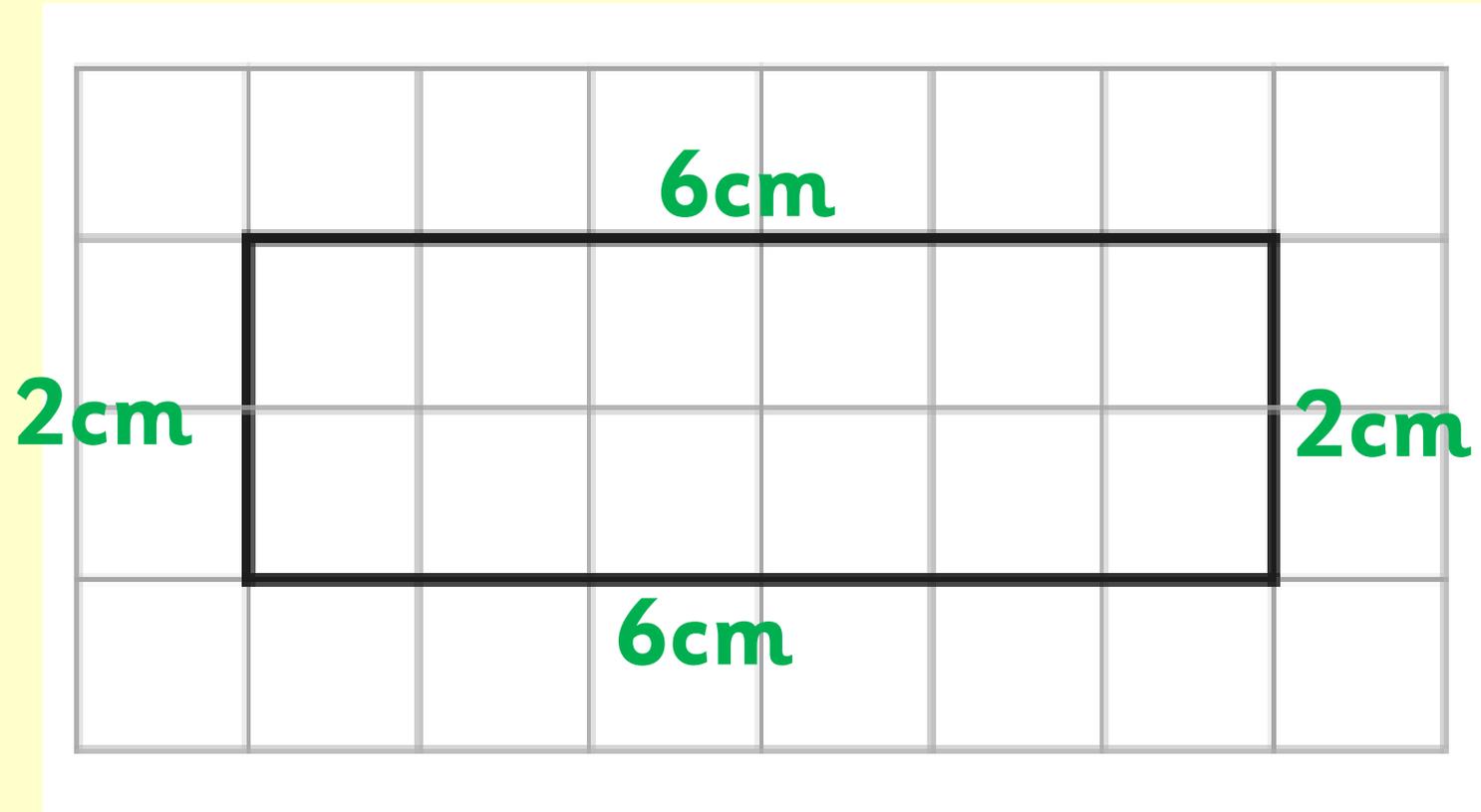


**There are 6 squares touching the line. So we write above 6cm.**

**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.**



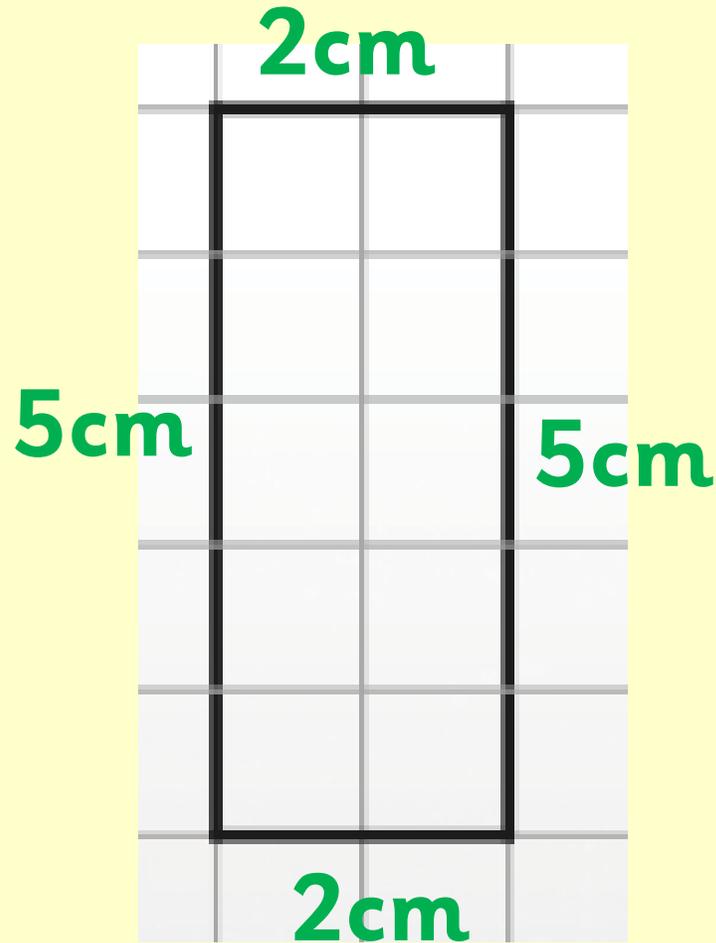
**Once you have labelled the lengths you can then find the perimeter.**

**= 16cm**

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

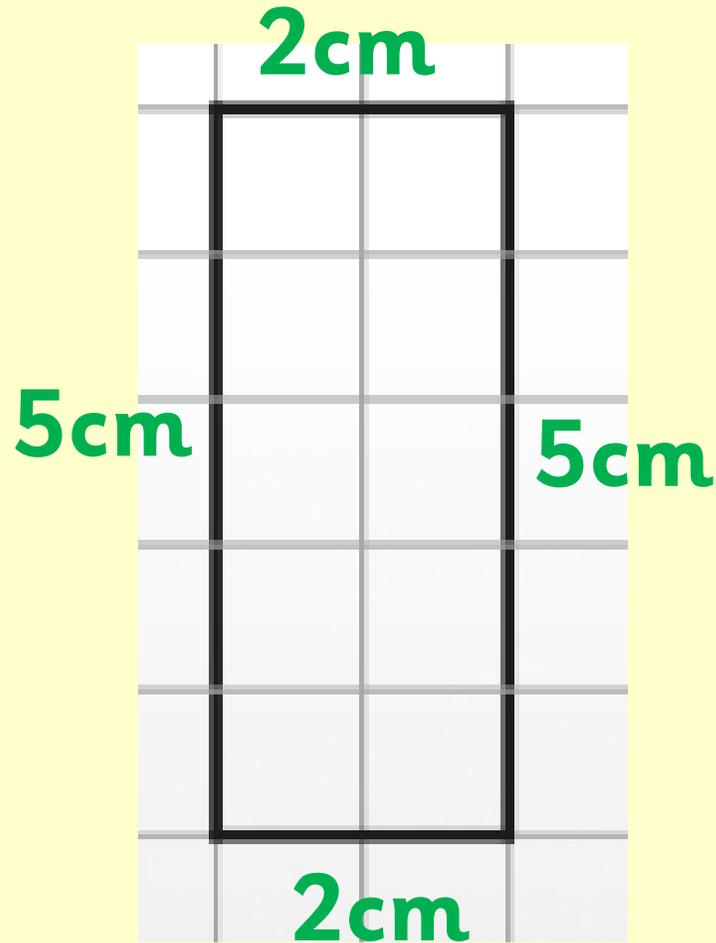


**Your turn,  
Can you find the perimeter? Please show your working  
out.**



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

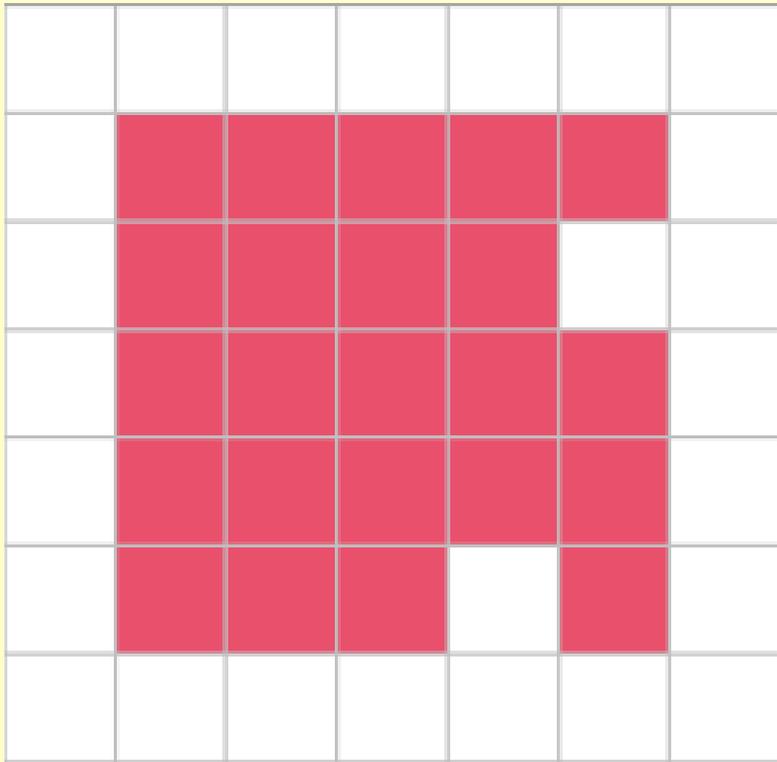
**Your turn,  
Can you find the perimeter? Please show your working  
out.**



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

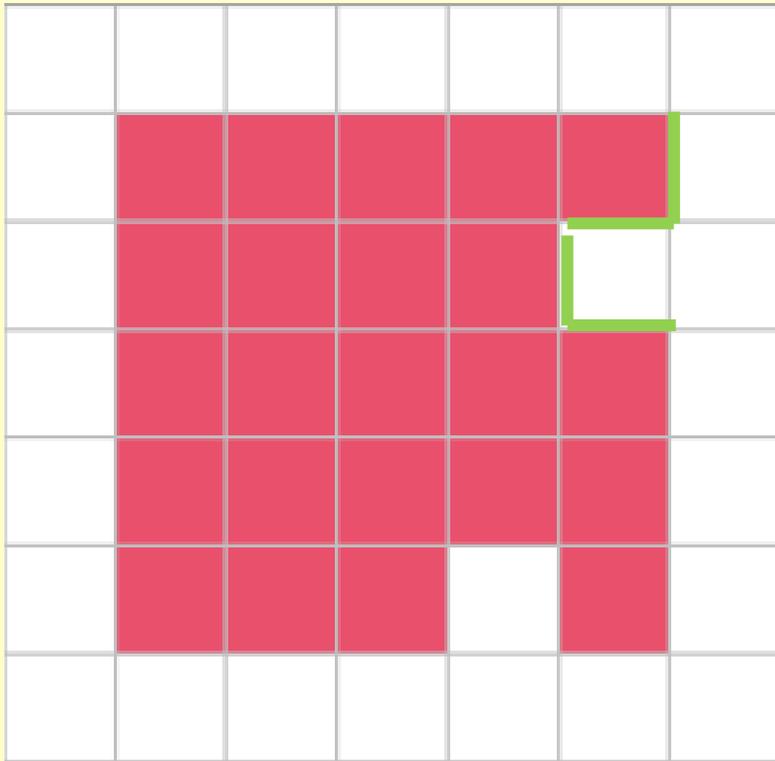
**Great! Now start your worksheet!**

**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.**