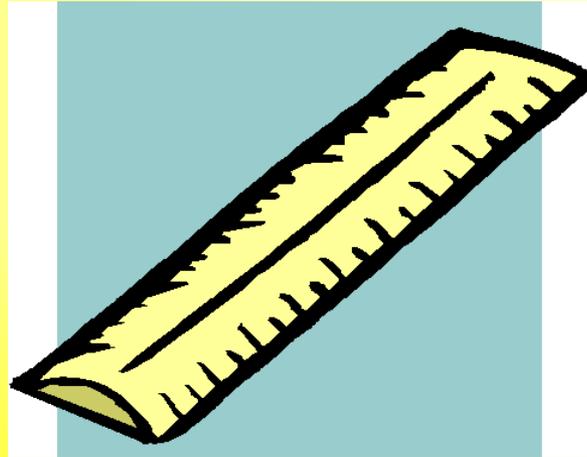
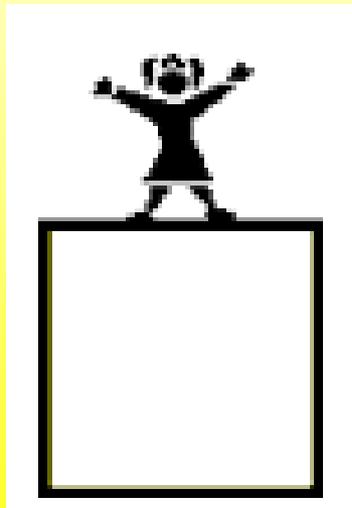


LO: To measure and  
calculate perimeters  
of polygons

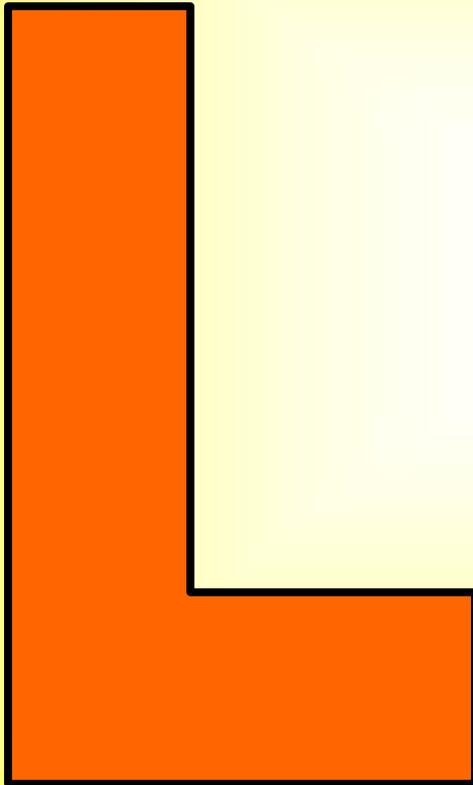


# *Talk Partners'*

- What are polygons?
- How many types can you list?



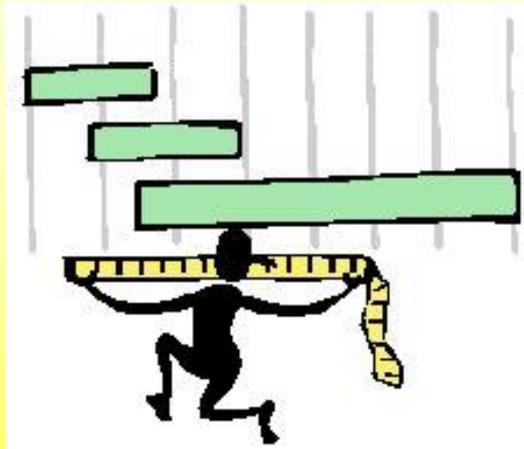
Look at this 'L' shape:



- How would you calculate the distance around this shape?
- What is the correct mathematical term for this?

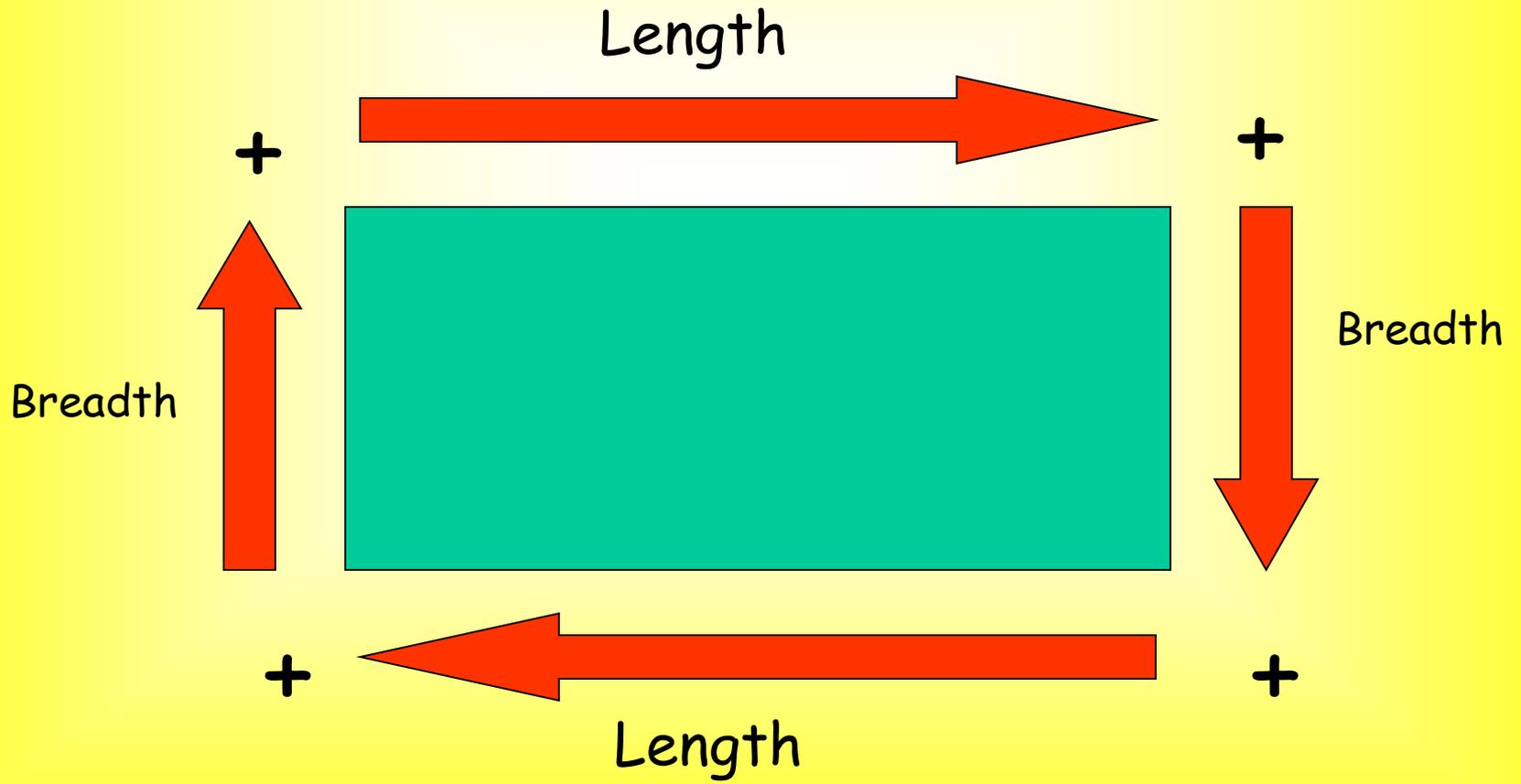
# Perimeter

- When we measure the *distance around* a shape, we call it the **perimeter**.



- We measure the perimeter using the **length and breadth measurements**

The perimeter is found by adding up all the length and breadth measurements.

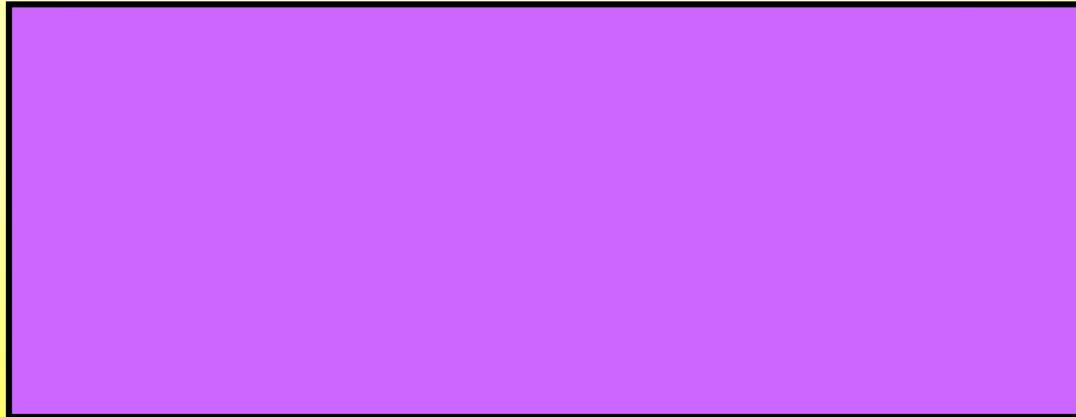


Can you find the perimeter for  
this shape



12 cm

5cm



# Answer

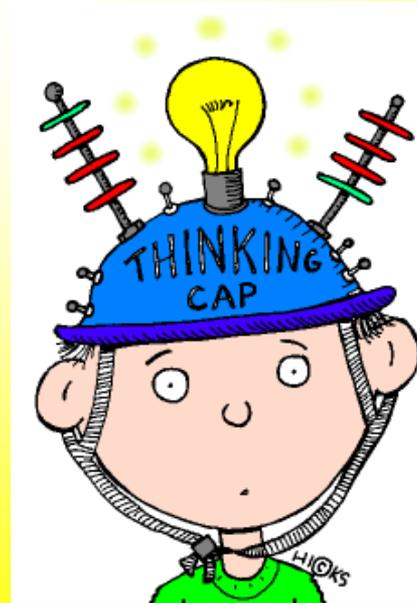
Add up all the length and breadth measurements:

$$12\text{cm} + 12\text{cm} + 5\text{cm} + 5\text{cm}$$

$$= 34\text{cm!}$$



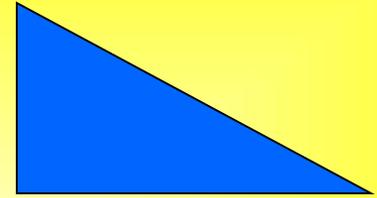
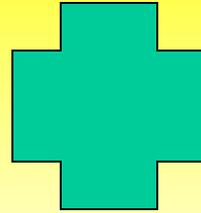
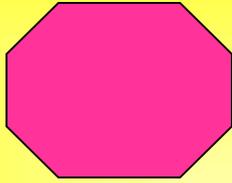
- We can write this in another way:  
"Twice the length plus twice the breadth"
- This is often written as:  $2 \times l + 2 \times b$
- *Can you tell me why?*



When calculating the perimeter of a rectangle do we need to measure all the side?



*Talk Partners' about your ideas  
and be ready to feedback to  
class!*

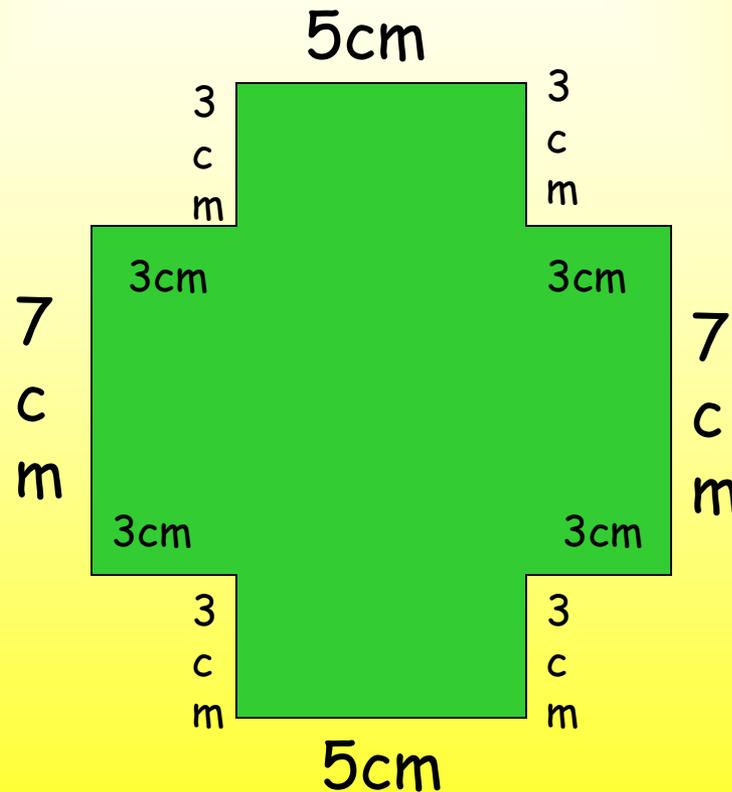


- *Can you think of any other shapes where you would not need to measure every side in order to work out the perimeter?*
- *Can you express the perimeter of these shapes in words and in letters?*



# CHALLENGE:

Can you find the perimeter for this shape?

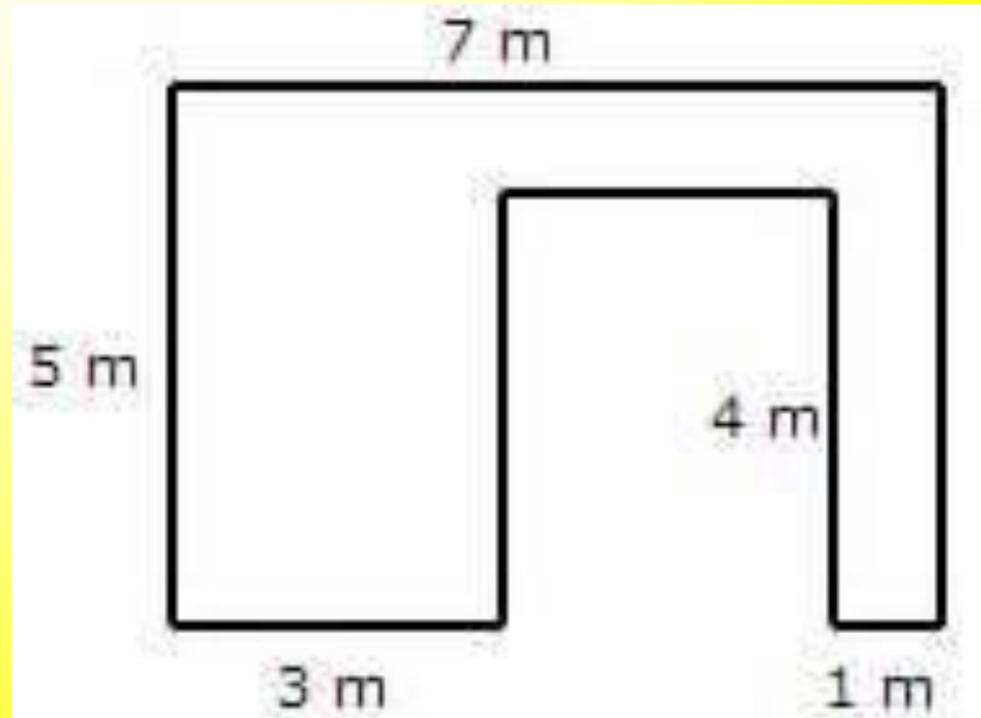
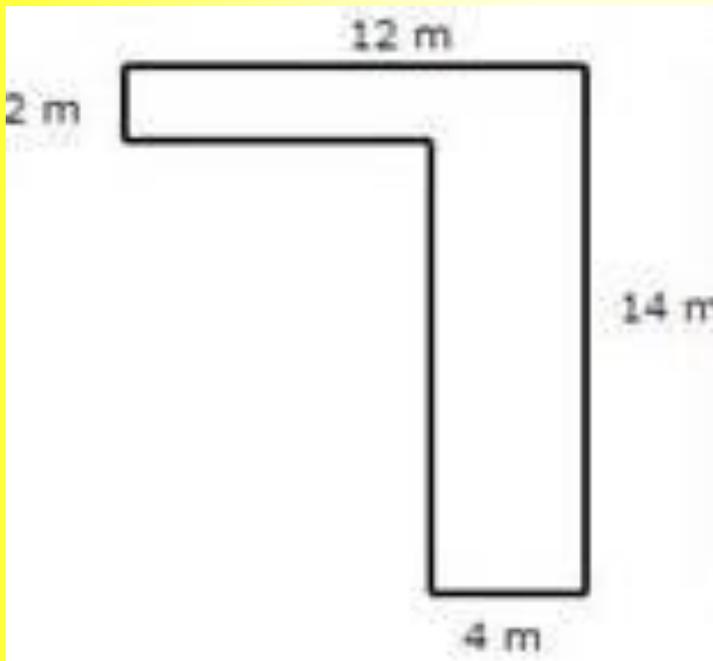


*How did you work out the answer?*

*Can you express this perimeter in words and letters?*



# How do we work out perimeters with missing lengths?



What are the perimeters of these irregular polygons?

# 'Have a go...'

