



# WALT



**WALT find area and perimeter.**

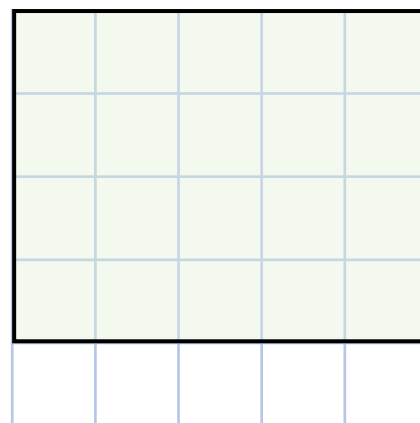
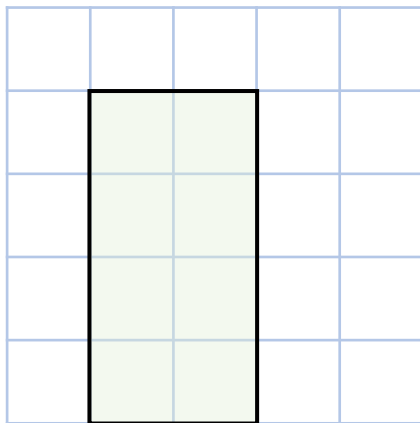
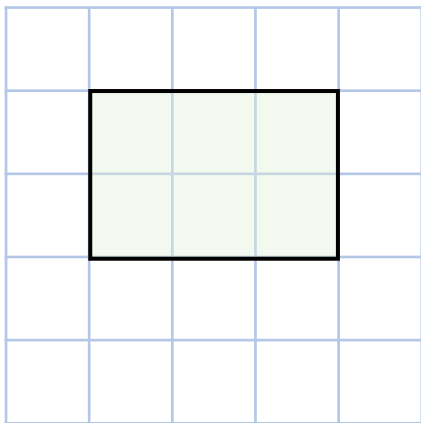
**I can:**

- ✓ use a formula to find the area.
- ✓ find areas of rectilinear shapes.
- ✓ find the perimeter of rectilinear shapes.

**GET READY**



- 1) Work out the perimeter of the shapes.  
Each square represents  $1 \text{ cm}^2$

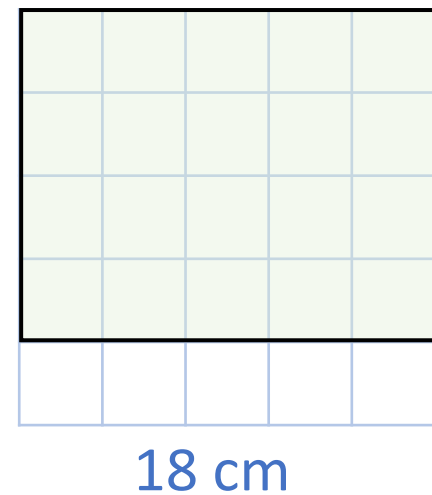
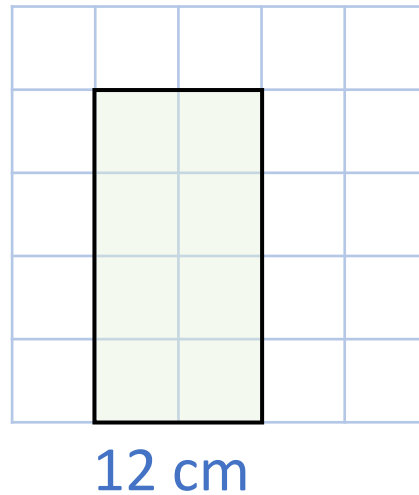
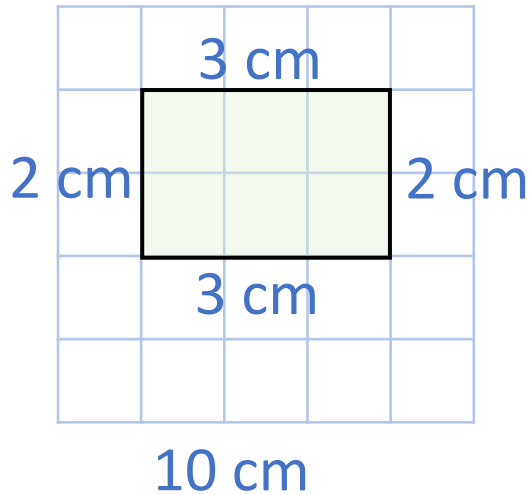


2)  $2a + 2b = 20$

Find the value of  $b$  if  $a = 8$

3)  $8 \times \square = 72$

- 1) Work out the perimeter of the shapes.  
Each square represents  $1 \text{ cm}^2$



- 2)  $2a + 2b = 20$  Find the value of  $b$  if  $a = 8$

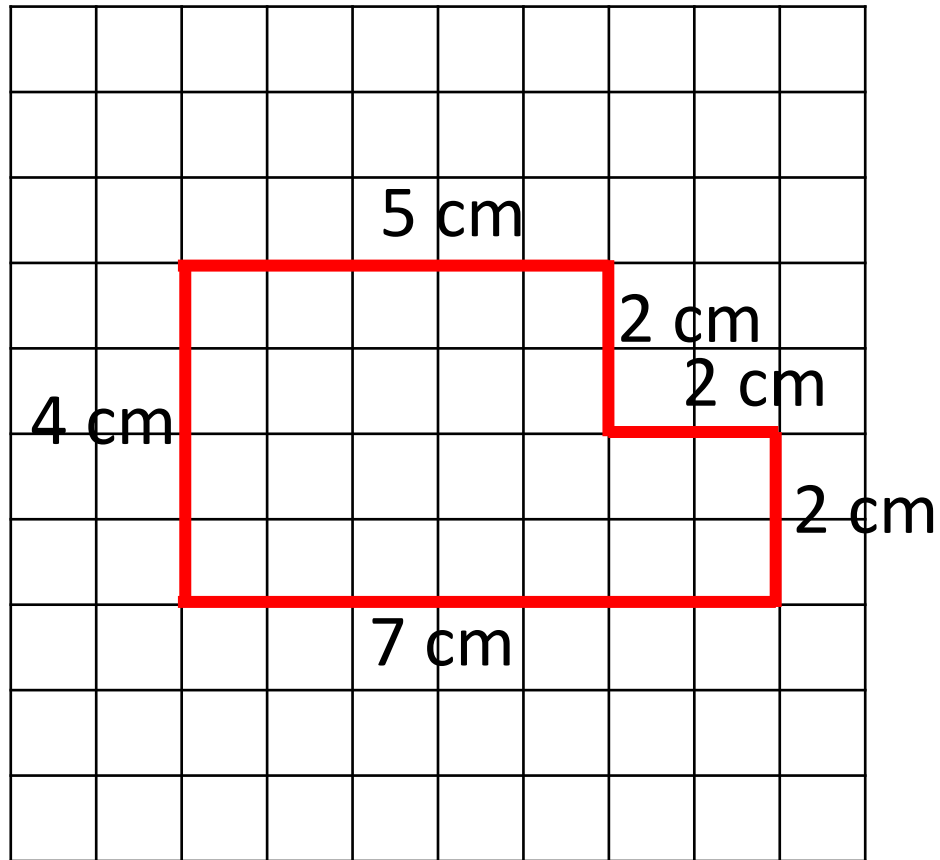
$$2 \times 8 \quad 16 + 2b = 20 \quad 2b = 4 \quad b = 2$$

- 3)  $8 \times \square = 72$

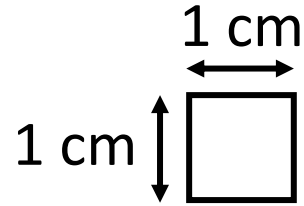
LET'S LEARN



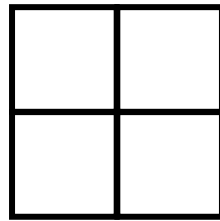
# Perimeter



$$5 + 2 + 2 + 2 + 7 + 4 = 22 \text{ cm}$$

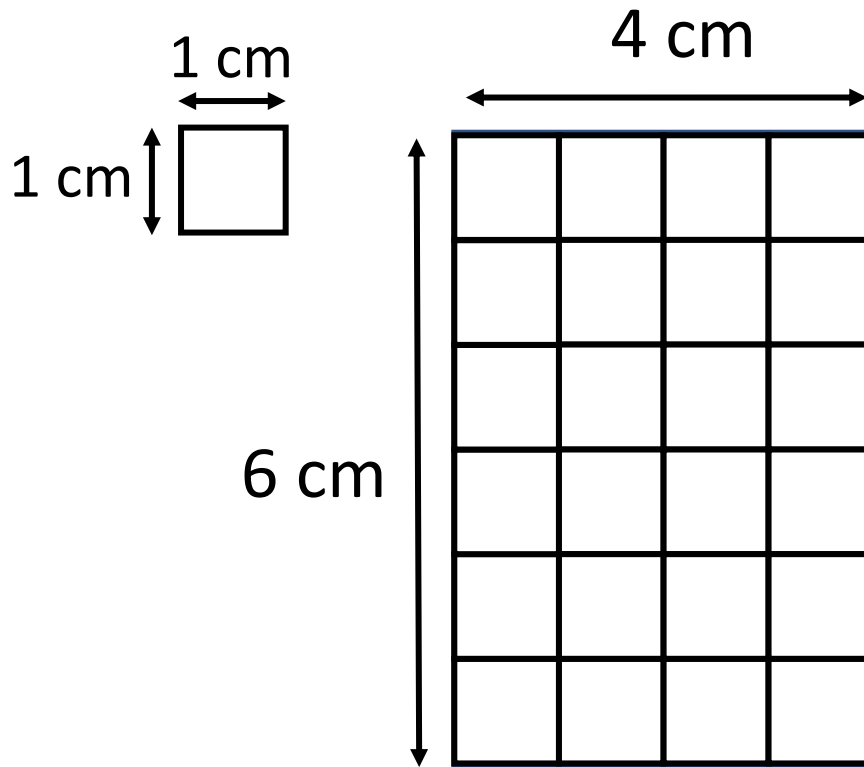


The area of the small square is  $1 \text{ cm}^2$



This square is made out of 4 of the smaller squares.

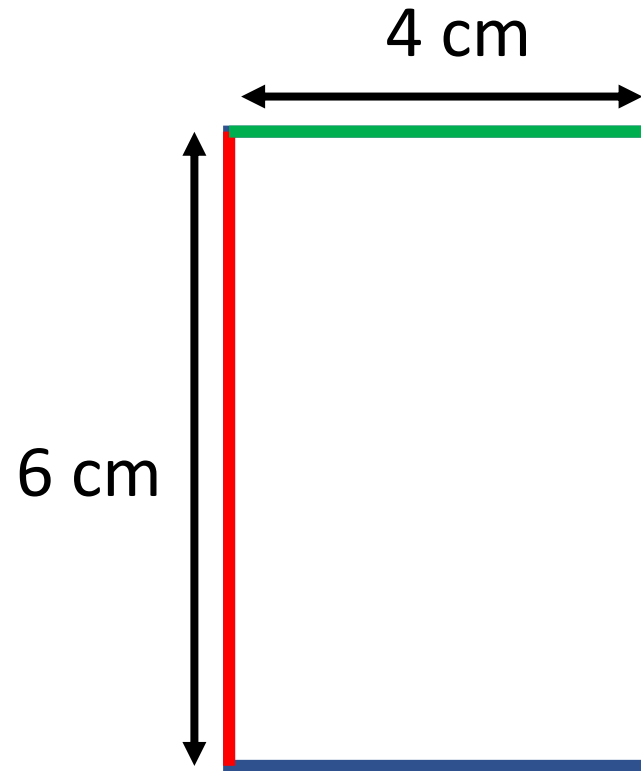
It has an area of  $4 \text{ cm}^2$



What is the area of the rectangle?

The area of the rectangle is 24 cm<sup>2</sup>

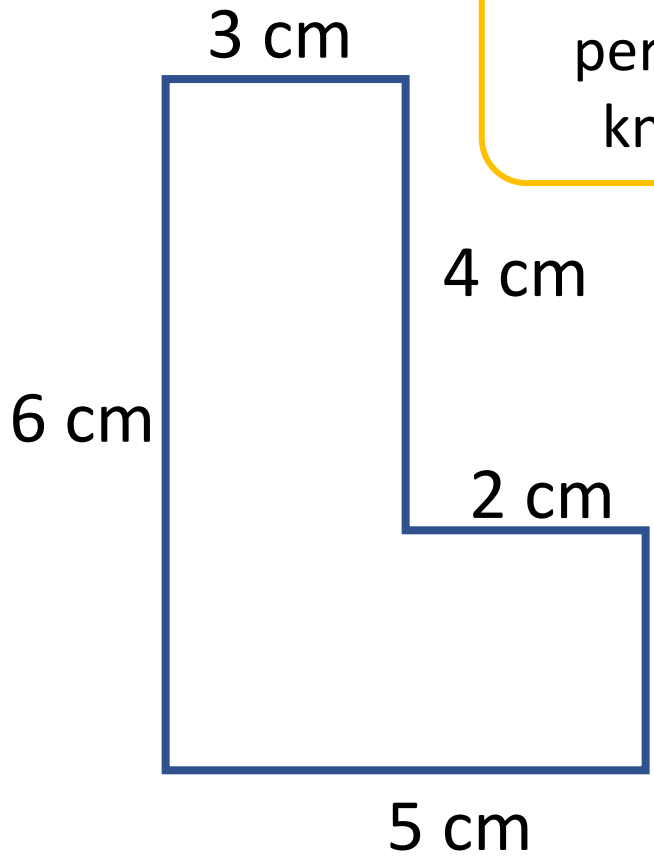




The formula for the area of a rectangle

Length  $\times$  Width

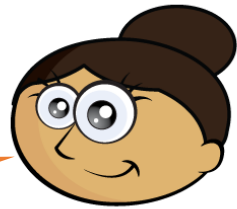
$$6 \text{ cm} \times 4 \text{ cm} = 24 \text{ cm}^2$$




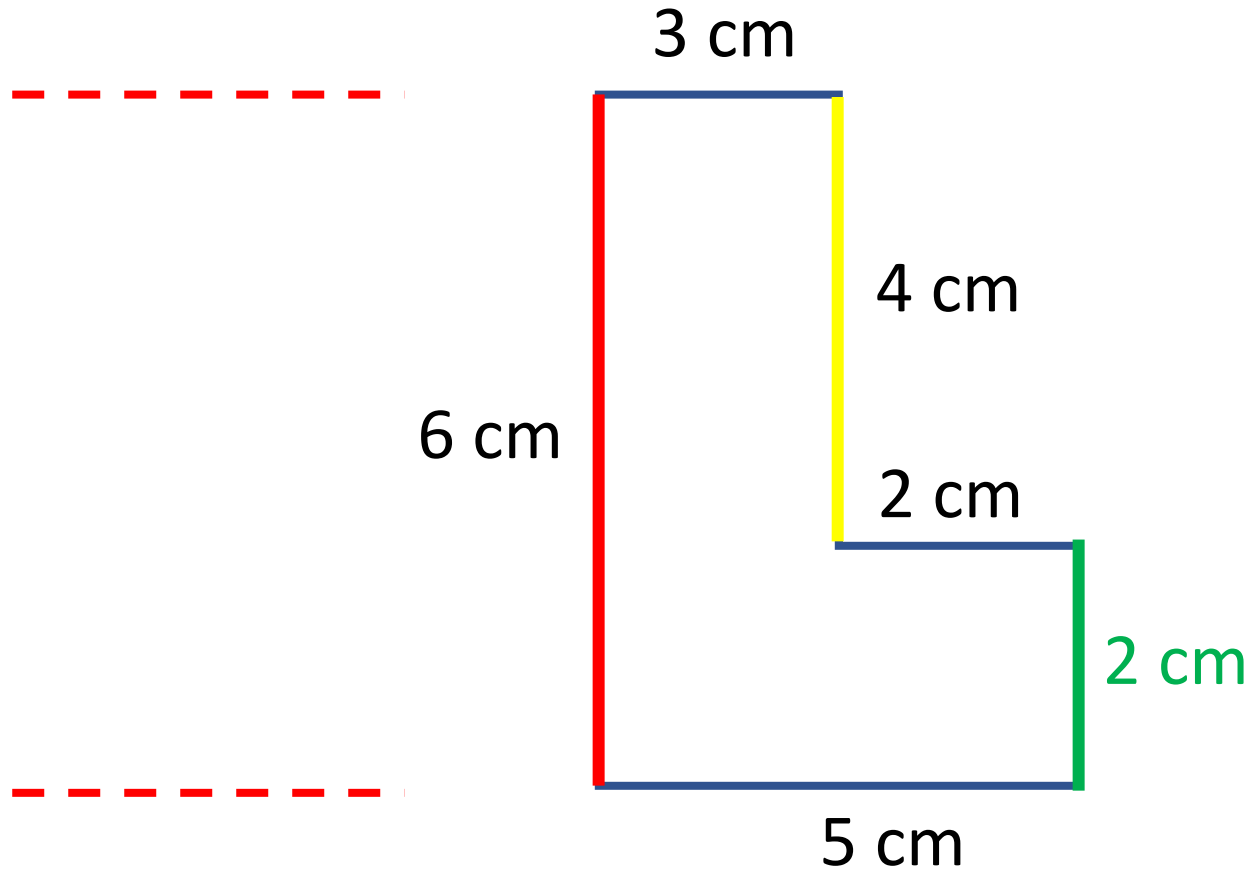
You can't work out the perimeter, you need to know all the lengths.



You can!



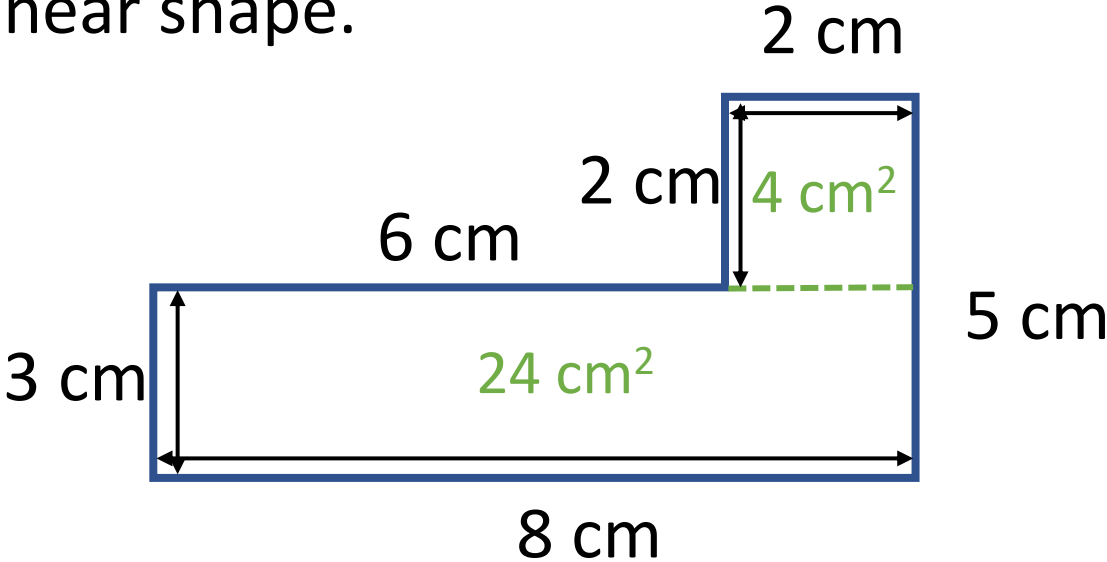
Have a think 



$$6 = 4 + ?$$

$$6 + 3 + 4 + 2 + 2 + 5 = 22 \text{ cm}$$

Find the area of this  
rectilinear shape.



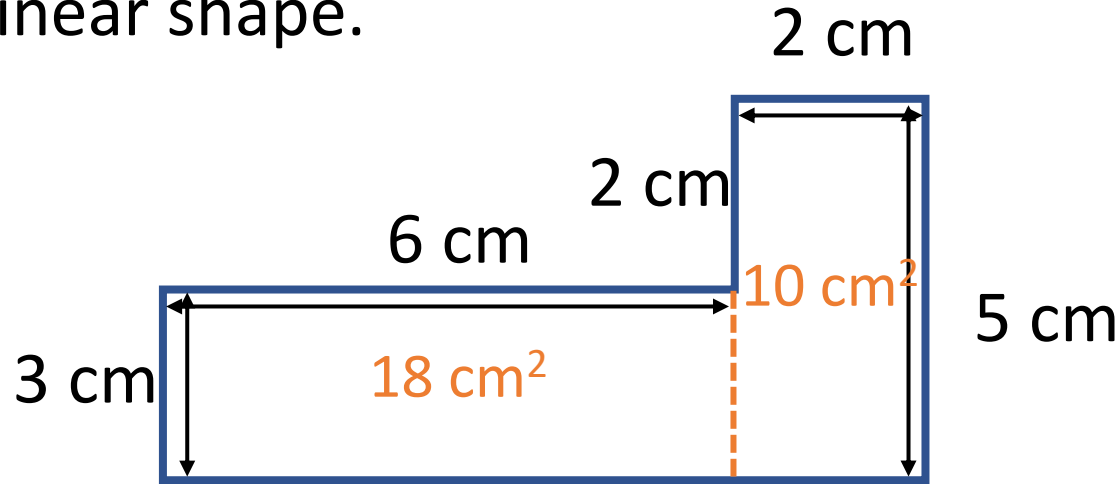
$2\text{ cm} \times 2\text{ cm} = 4\text{ cm}^2$  How many different ways

$3\text{ cm} \times 8\text{ cm} = 24\text{ cm}^2$  could you do it?

$4\text{ cm}^2 + 24\text{ cm}^2 = 28\text{ cm}^2$

Have a think 

Find the area of this  
rectilinear shape.



$$2 \text{ cm} \times 2 \text{ cm} = 4 \text{ cm}^2$$

$$3 \text{ cm} \times 6 \text{ cm} = 18 \text{ cm}^2$$

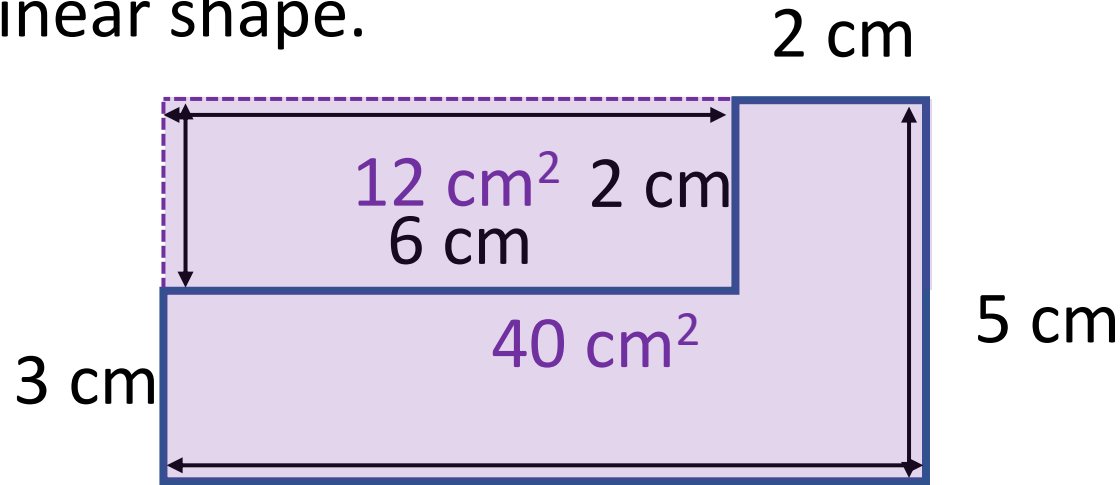
$$4 \text{ cm}^2 + 18 \text{ cm}^2 = 22 \text{ cm}^2$$

$$2 \text{ cm} \times 5 \text{ cm} = 10 \text{ cm}^2$$

$$10 \text{ cm}^2 + 18 \text{ cm}^2 = 28 \text{ cm}^2$$

$$10 \text{ cm}^2 + 18 \text{ cm}^2 = 28 \text{ cm}^2$$

Find the area of this  
rectilinear shape.



$$2 \text{ cm} \times 2 \text{ cm} = 4 \text{ cm}^2$$

8 cm

$$2 \text{ cm} \times 5 \text{ cm} = 10 \text{ cm}^2$$

$$3 \text{ cm} \times 8 \text{ cm} = 24 \text{ cm}^2$$

$$3 \text{ cm} \times 6 \text{ cm} = 18 \text{ cm}^2$$

$$4 \text{ cm}^2 + 24 \text{ cm}^2 = 28 \text{ cm}^2$$

$$10 \text{ cm}^2 + 18 \text{ cm}^2 = 28 \text{ cm}^2$$

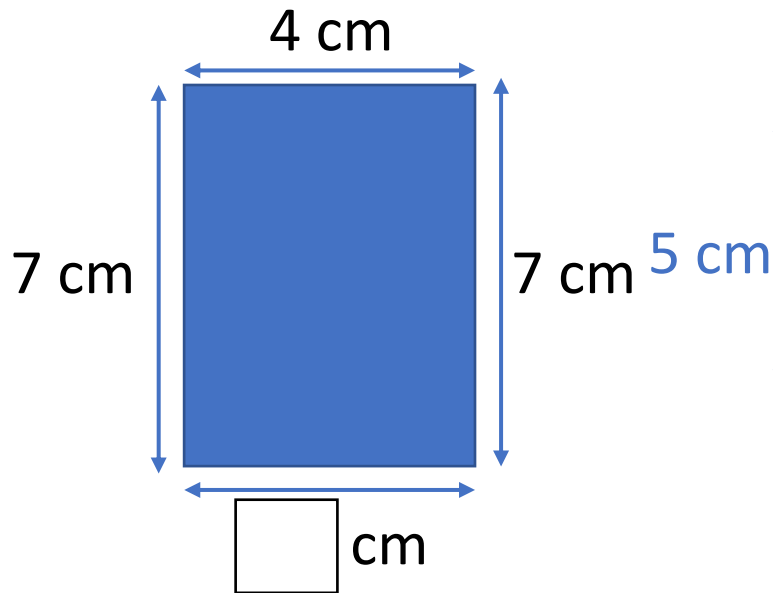
$$8 \text{ cm} \times 5 \text{ cm} = 40 \text{ cm}^2$$

$$2 \text{ cm} \times 6 \text{ cm} = 12 \text{ cm}^2$$

$$40 \text{ cm}^2 - 12 \text{ cm}^2 = 28 \text{ cm}^2$$

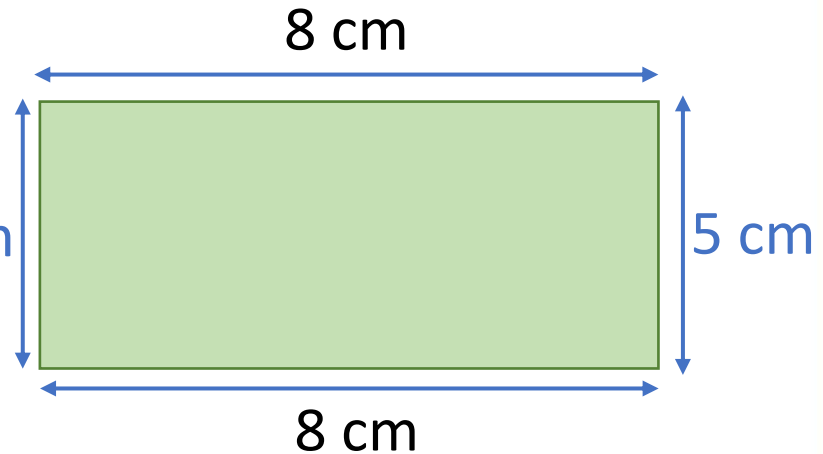
Area =  $28 \text{ cm}^2$

Perimeter =



Area =

Perimeter = 26 cm



$$16 + 2w = 26$$

$$2w = 10$$

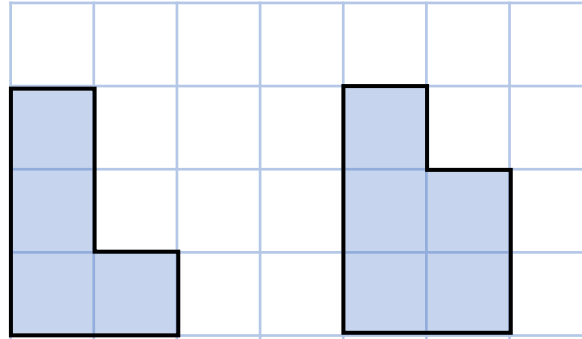
Have a think



Each square represents  $1 \text{ cm}^2$

Area =  $4 \text{ cm}^2$

Perimeter =  $10 \text{ cm}$

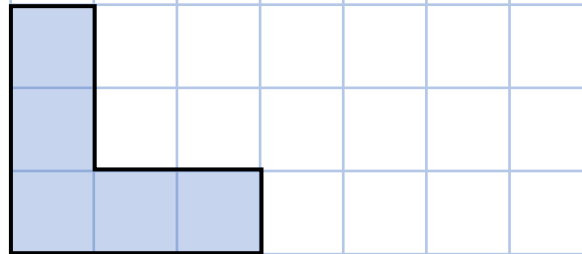


Area =  $5 \text{ cm}^2$

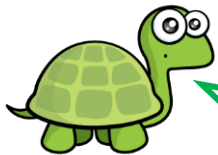
Perimeter =  $10 \text{ cm}$

Area =  $5 \text{ cm}^2$

Perimeter =  $12 \text{ cm}$



Have a think



If you increase the area, the perimeter will also increase.



**YOUR TURN**

Have a go at the rest of  
the questions on the  
worksheet

