WALT

WALT find area and perimeter.

I can:

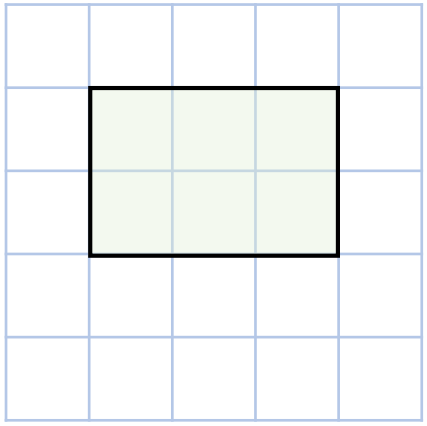
- ✓ use a formula to find the area.
- ✓ find areas of rectilinear shapes.
- ✓ find the perimeter of rectilinear shapes.

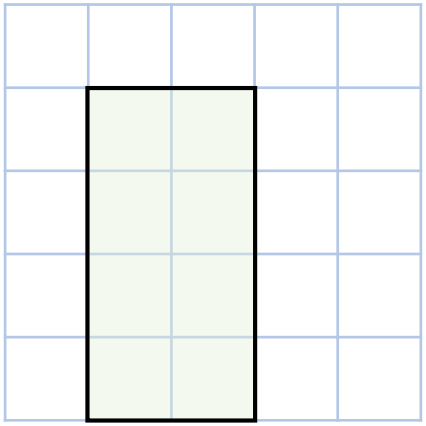
GET READY

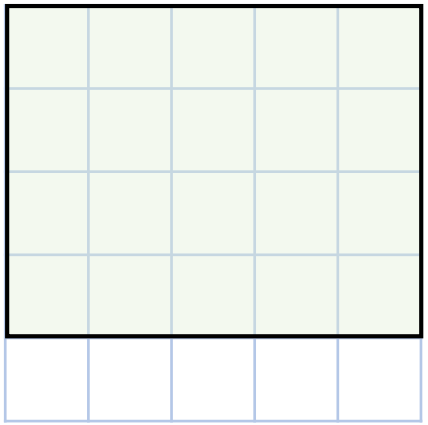
White Rose Maths

1) Work out the perimeter of the shapes.

Each square represents 1 cm²





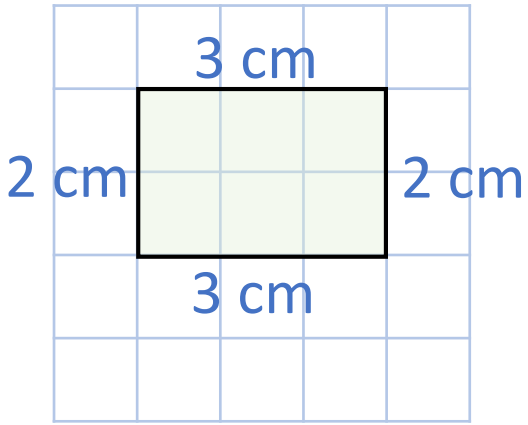


2) $2a + 2b = 20$ Find the value of b if $a = 8$

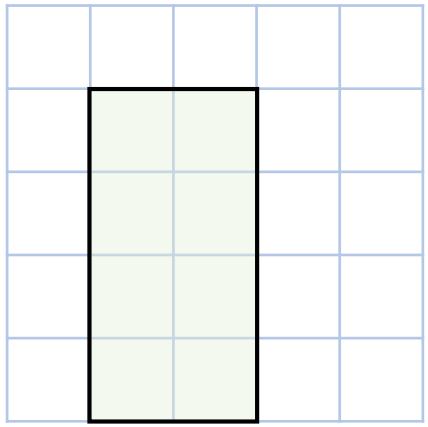
3) $8 \times \square = 72$

1) Work out the perimeter of the shapes.

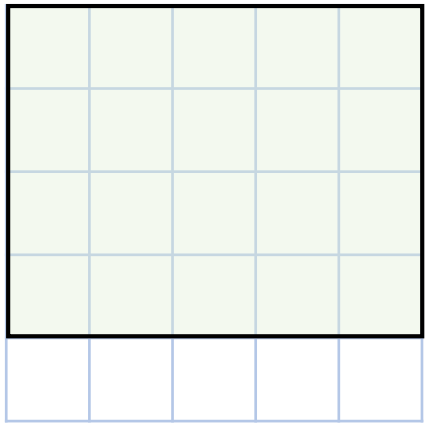
Each square represents 1 cm²



10 cm



12 cm



18 cm

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

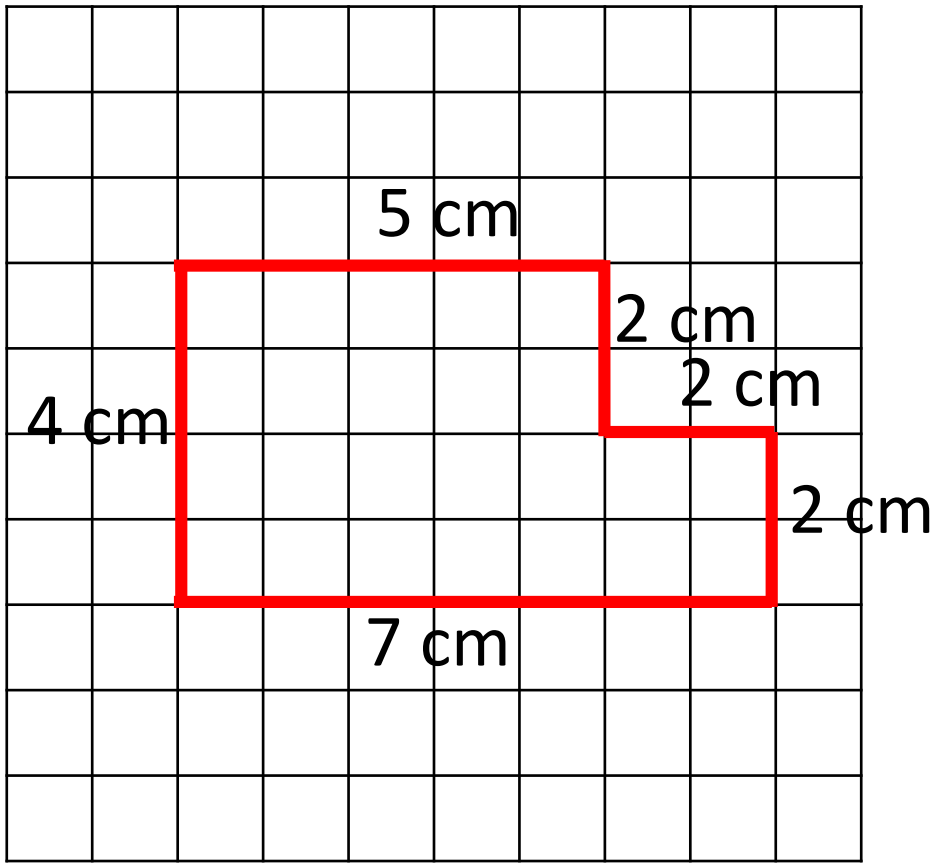
2×8 $16 + 2b = 20$ $2b = 4$ $b = 2$

3) $8 \times \square = 72$

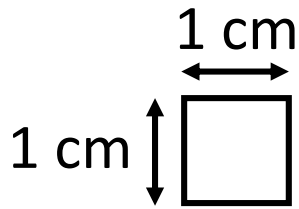
LET'S LEARN

White Rose Maths

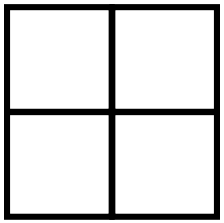
Perimeter



$5 + 2 + 2 + 2 + 7 + 4 = 22$ cm

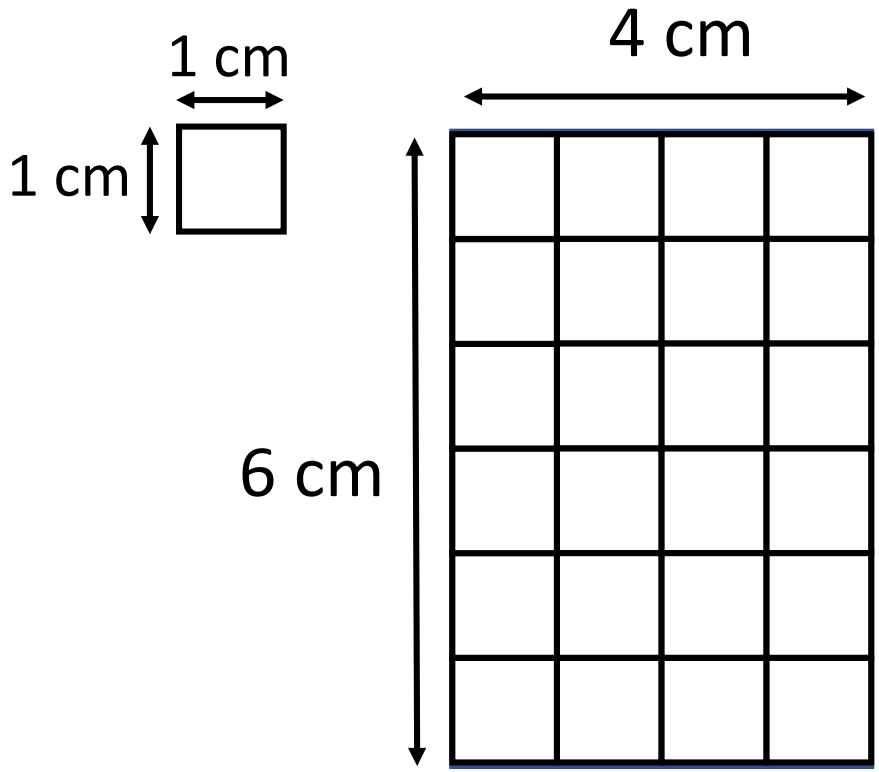


The area of the small square is 1 cm^2



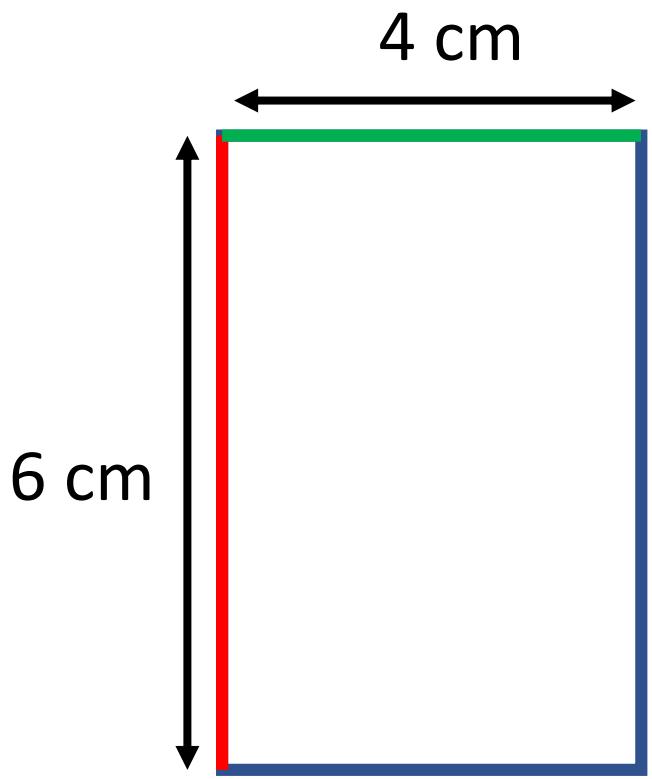
This square is made out of 4 of the smaller squares.

It has an area of 4 cm^2



What is the area of the rectangle?

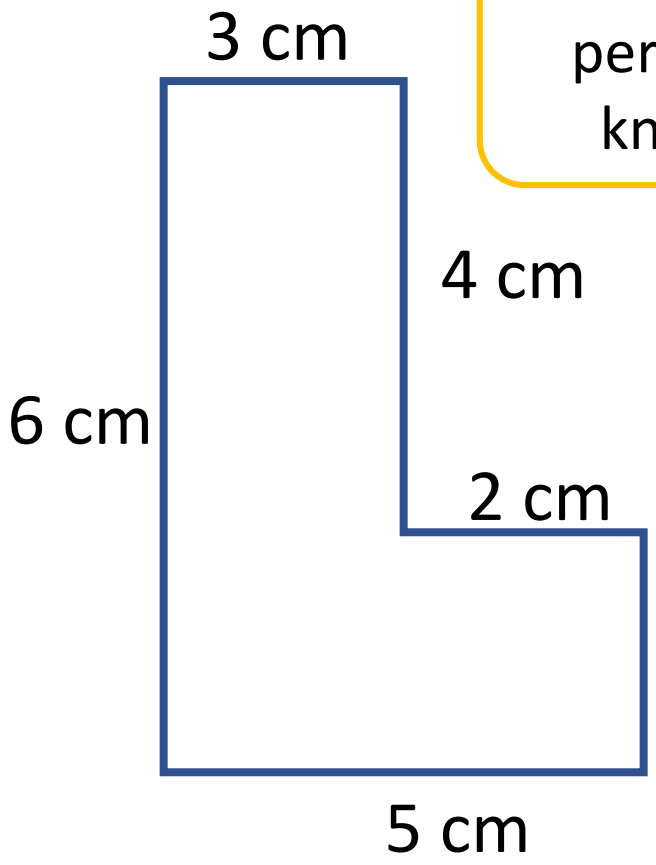
The area of the rectangle is 24 cm^2



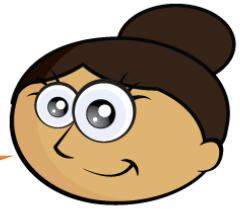
The formula for the area of a rectangle

Length × Width

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

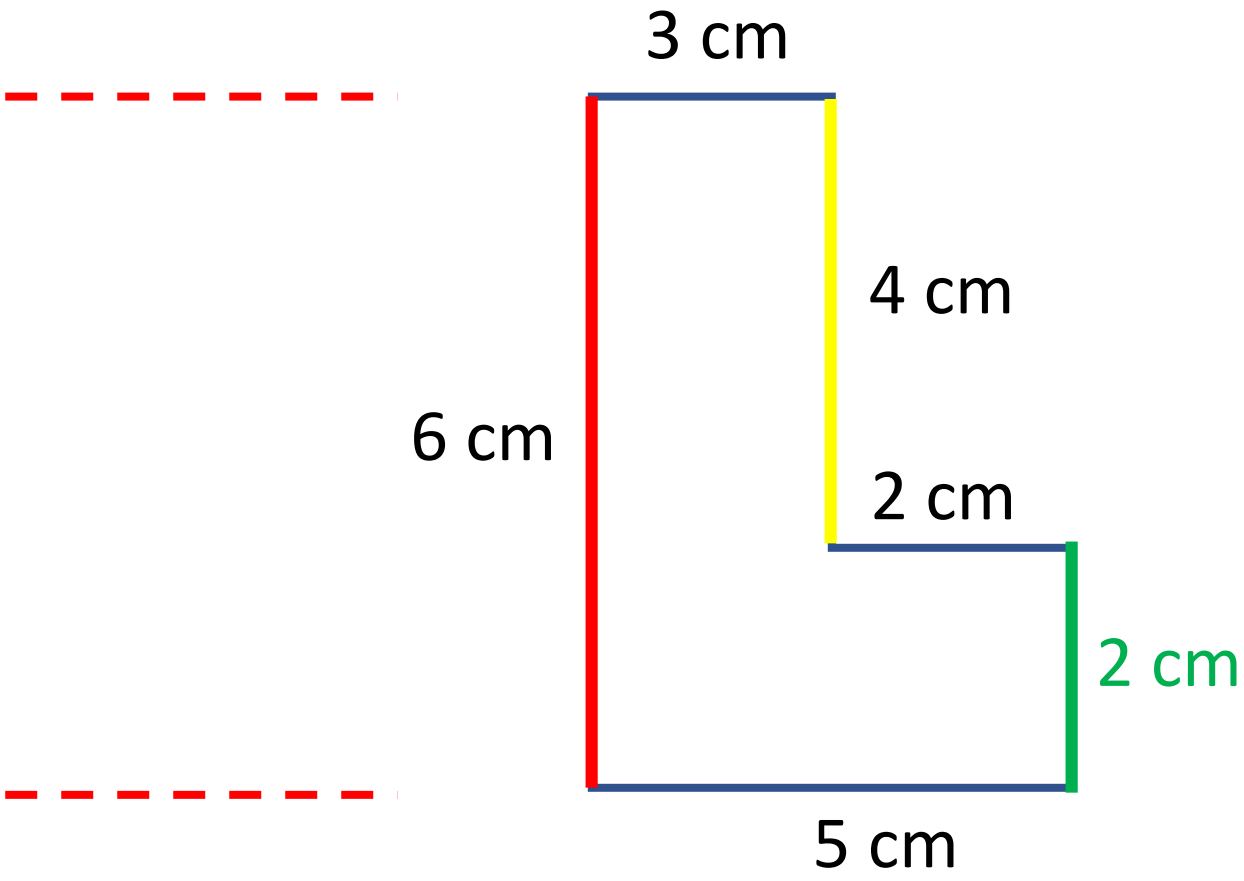


You can't work out the perimeter, you need to know all the lengths.



You can!

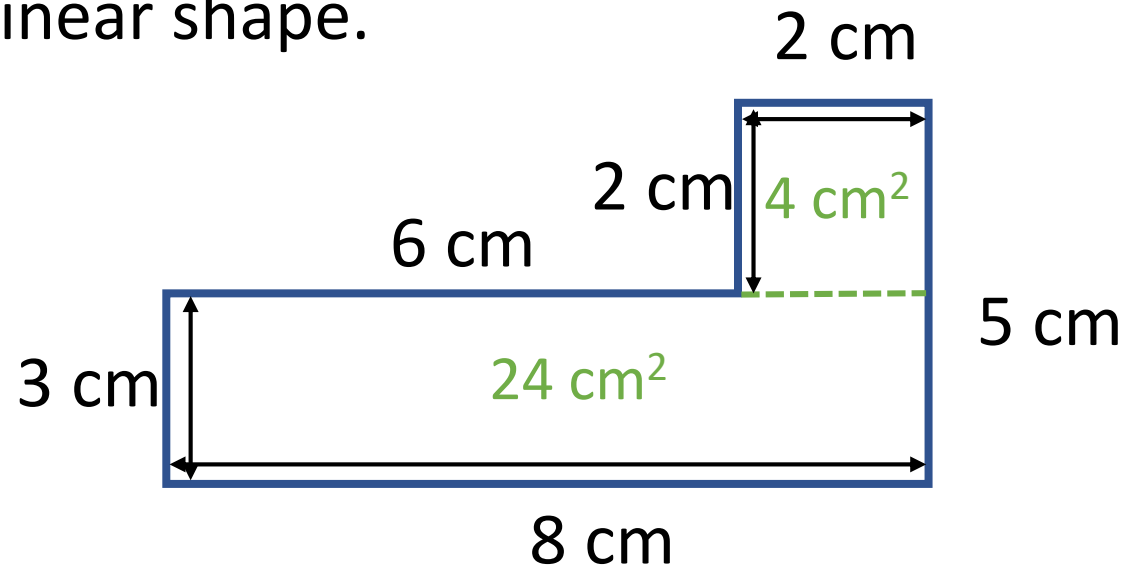
Have a think



$$6 = 4 + ?$$

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

Find the area of this rectilinear shape.



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

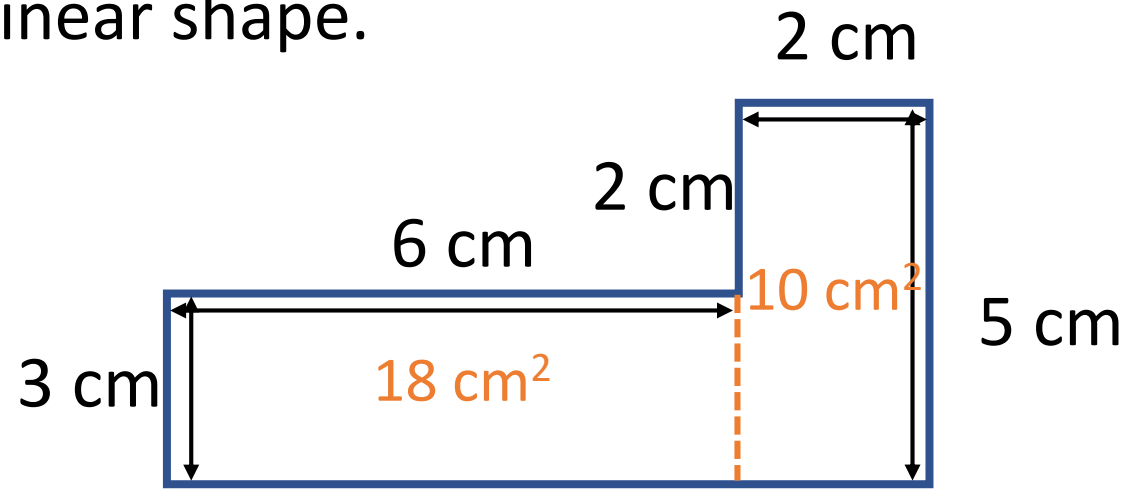
$3 \text{ cm} \times 8 \text{ cm} = 24 \text{ cm}^2$

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

How many different ways could you do it?

Have a think

Find the area of this rectilinear shape.



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

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

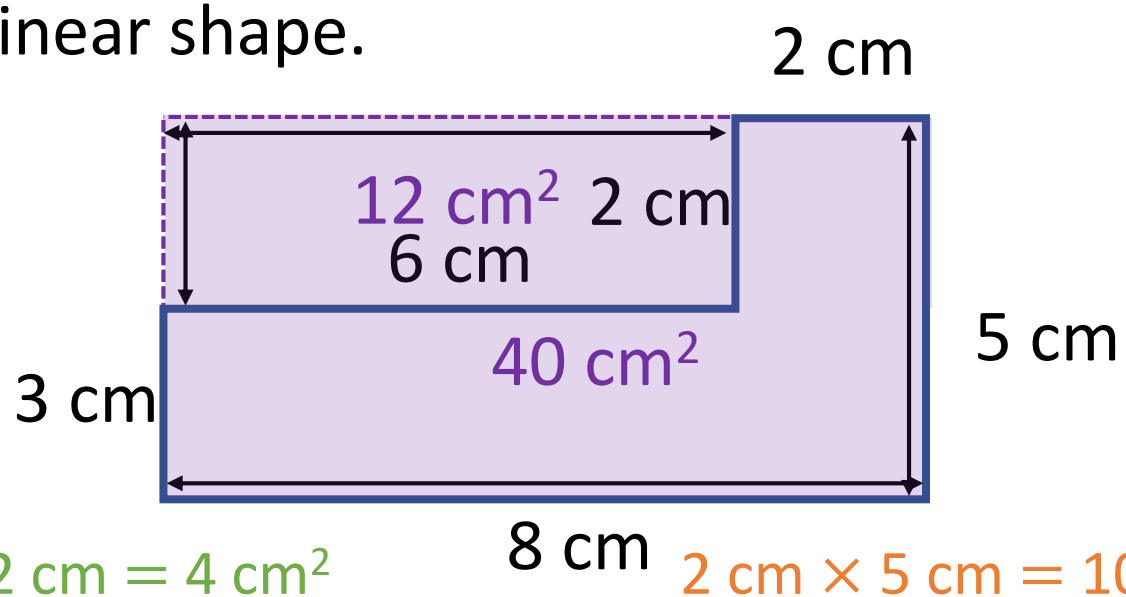
$4\text{ cm}^2 + 24\text{ cm}^2 = 28\text{ cm}^2$

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

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

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

Find the area of this rectilinear shape.



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

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

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

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

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

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

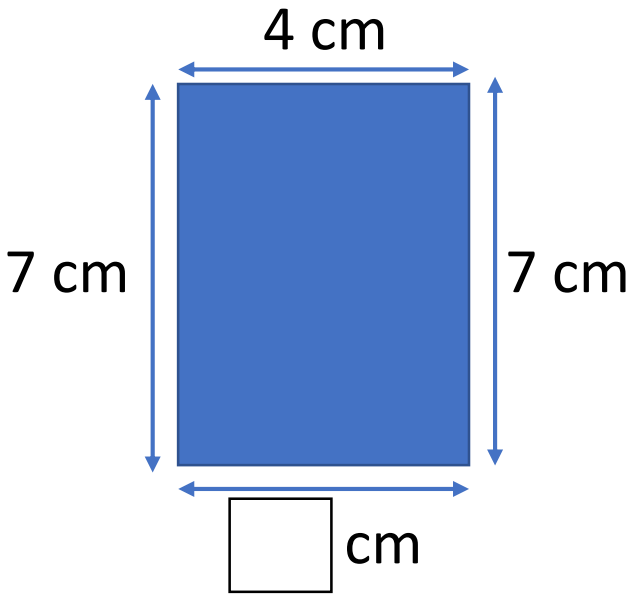
$8\text{ cm} \times 5\text{ cm} = 40\text{ cm}^2$

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

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

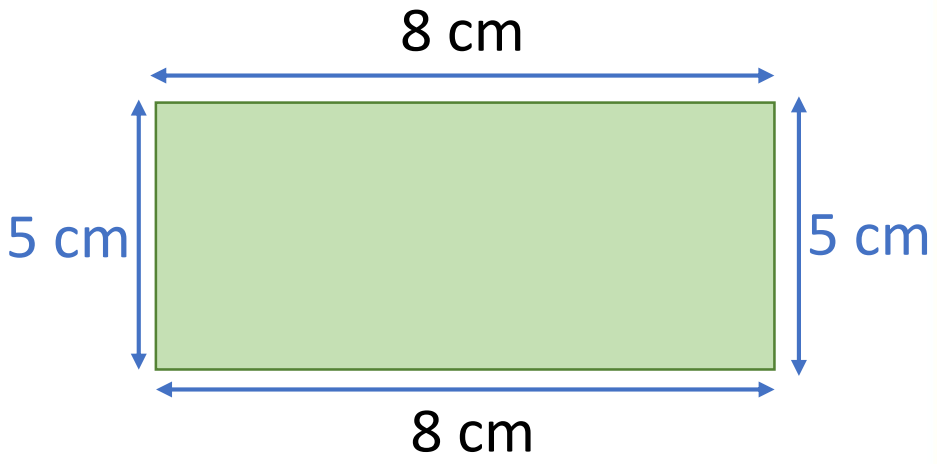
Area = 28 cm²

Perimeter = ☐



Area = ☐

Perimeter = 26 cm



$16 + 2w = 26$

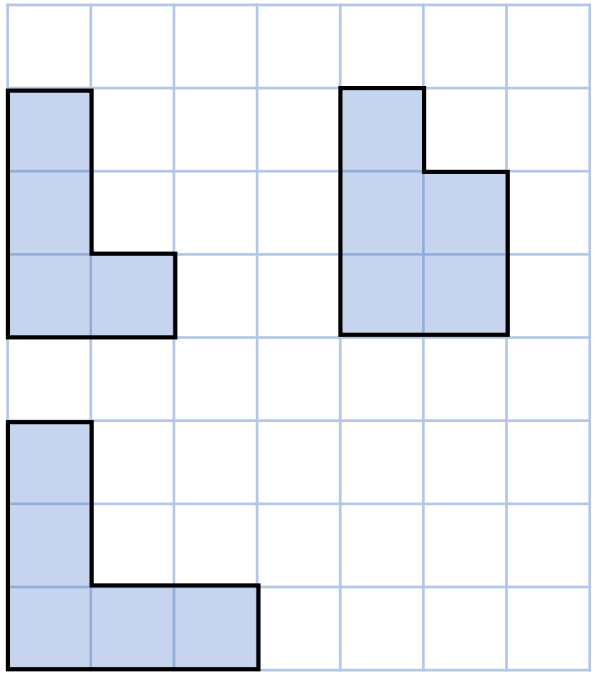
$2w = 10$

Have a think

Each square represents 1 cm²

Area = 4 cm²

Perimeter = 10 cm



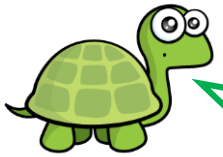
Area = 5 cm²

Perimeter = 10 cm

Area = 5 cm²

Perimeter = 12 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

White Rose Maths