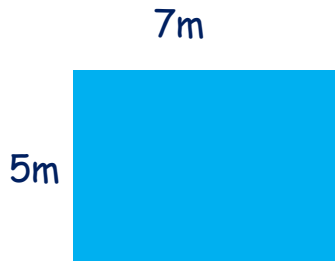
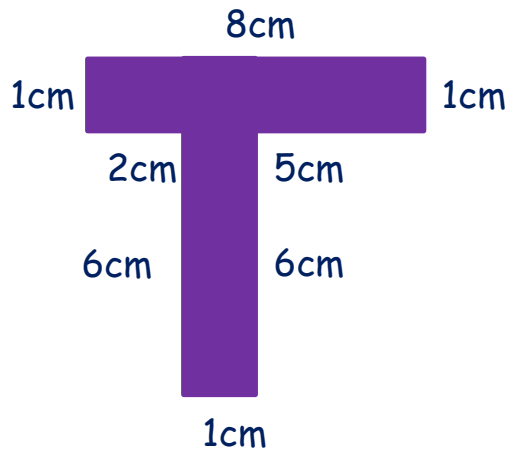




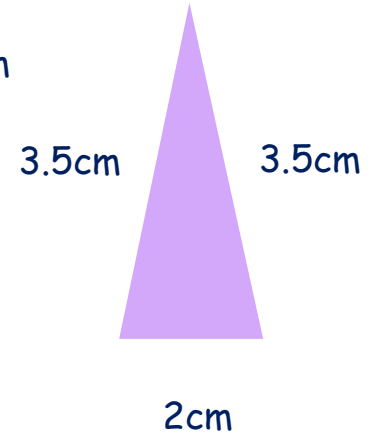
1) Find the perimeter of each shape.



24 m

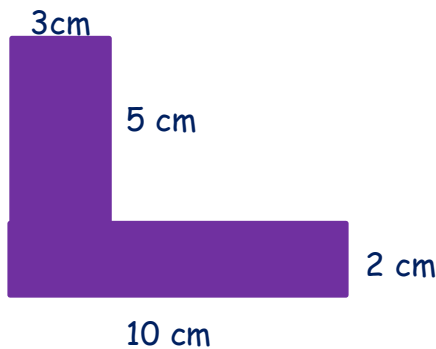


30 cm

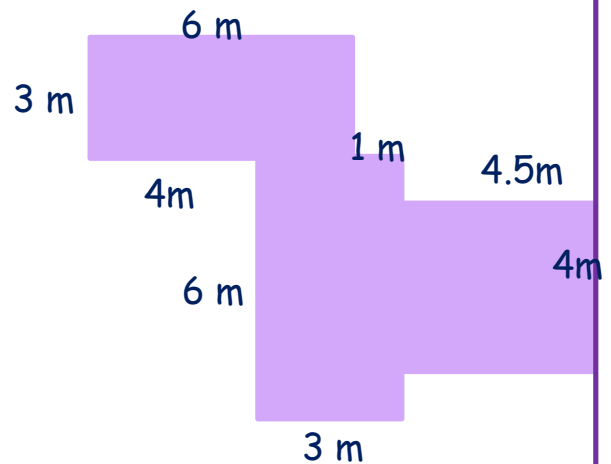


9 cm

2) Find the perimeter of these shapes.



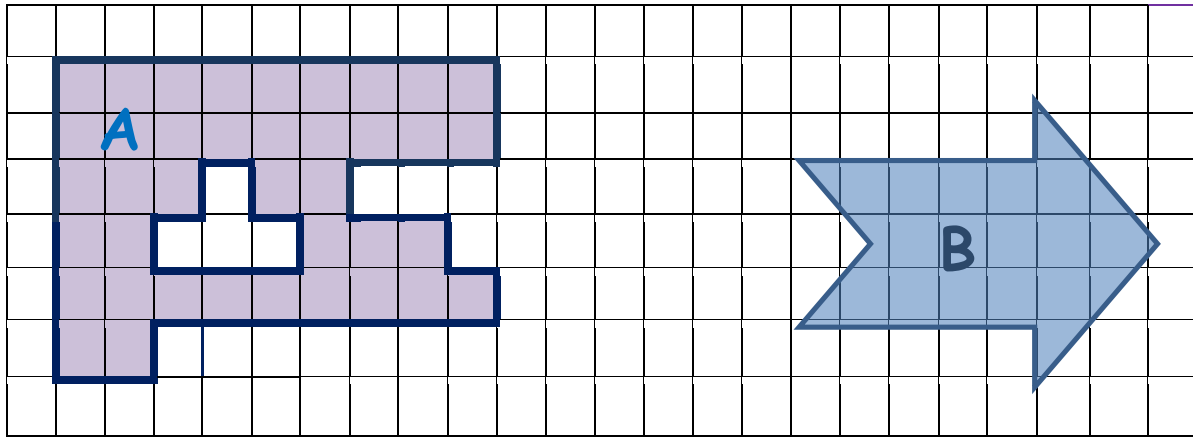
34 cm



41 m

The second question is a little trickier. The children may need support in identifying any errors as there are 3 missing amounts. The children should be able to identify that $6 - 4 = 2$ and the 2 missing sides are of equal length. Therefore, they are both 1m in length.

3) This is a drawing of shapes on a grid. Each square represents 1cm^2 . Find the area of the shapes below:

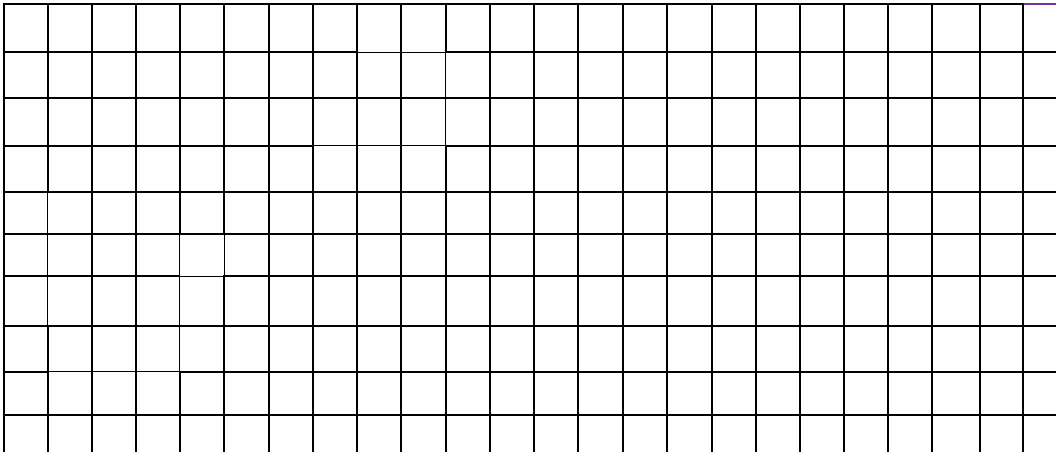


$$A = 39\text{cm}^2$$

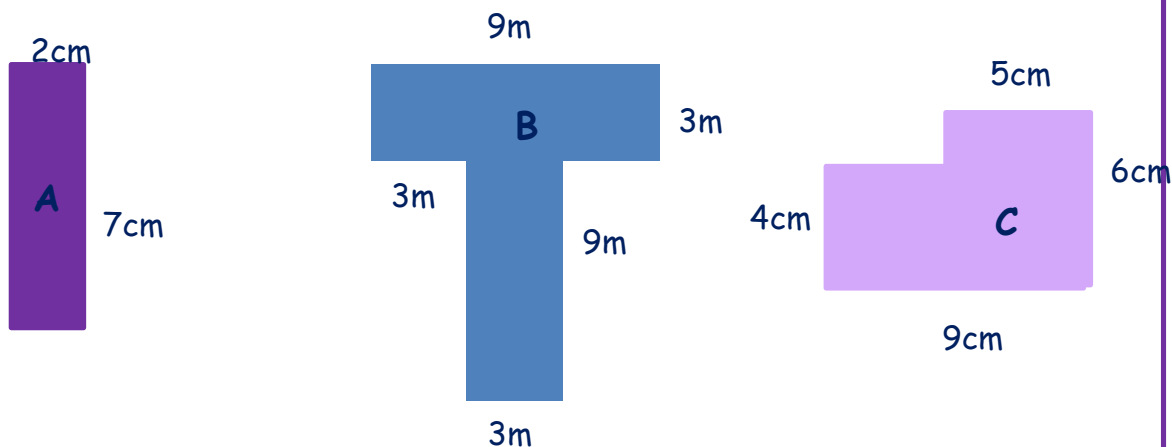
$$B = 18.5\text{cm}^2$$

4) Draw 2 shapes on to the grid each with the area of 24cm^2 but both with different perimeters.

Accept any shapes that meet the set criteria.



5) Find the area of these shapes.



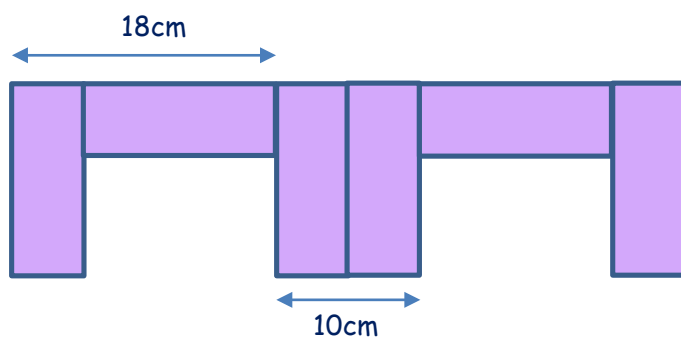
Children may make errors on C. Assess whether this error is due to lack of understanding of finding the area using the formula or lack of understanding of finding missing amounts.

$$A = 14\text{cm}^2$$

$$B = 54\text{m}^2$$

$$C = 46\text{cm}^2$$

6) The design below is created using 6 identical rectangles.



Use the information provided to work out the total area of the design.

The children should demonstrate understanding of using the information provided to work out the area:

$$10\text{ cm} = 2 \text{ rectangles short side (width) so } 10 \div 2 = 5$$

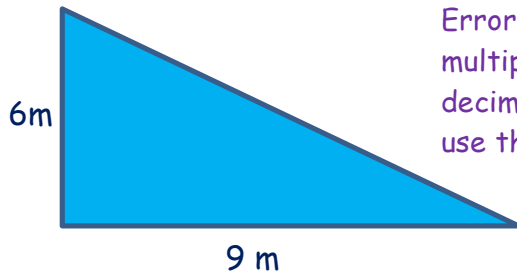
$$5 + \text{long side} = 18\text{ cm so long side (length)} = 13\text{cm}$$

$$\text{the area of one rectangle is } l \times w = 13 \times 5 = 65$$

$$\text{there are 6 rectangles so } 6 \times 65 = 390$$

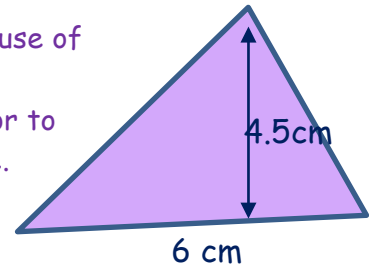
$$390\text{ cm}^2$$

7) Calculate the area of the triangles.



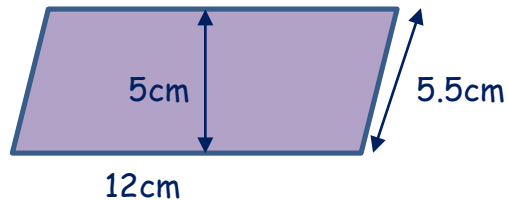
$$\text{area} = 27\text{m}^2$$

Error here maybe due to the use of multiplication methods with decimals rather than the error to use the formula for a triangle.



$$\text{area} = 27\text{m}^2$$

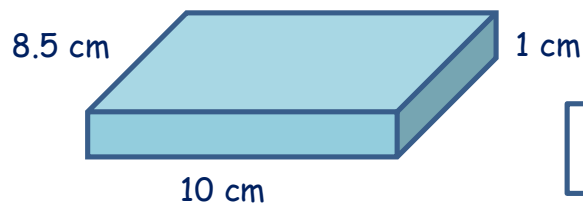
8) Find the area of the parallelogram



Review with children to ensure that they used the correct measurements.

$$\text{area} = 60\text{cm}^2$$

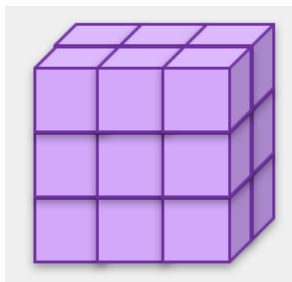
9) Find the volume of this box.



Children should be able to multiply a decimal by 10.

$$\text{volume} = 85\text{cm}^3$$

10) Find the volume of this cuboid.



The children should be able to visualise the cubes that cannot be seen on this image.

$$\text{volume} = 18 \text{ cm}^3$$

11) Fill in the missing boxes in the table below.

Number squared	Calculation	Answer
5^2	5×5	25
7^2	7×7	49
9^2	9×9	81

12) $4^3 + 5^3 =$

$4 \times 4 \times 4 = 64$

$5 \times 5 \times 5 = 125$

$125 + 64 = 189$