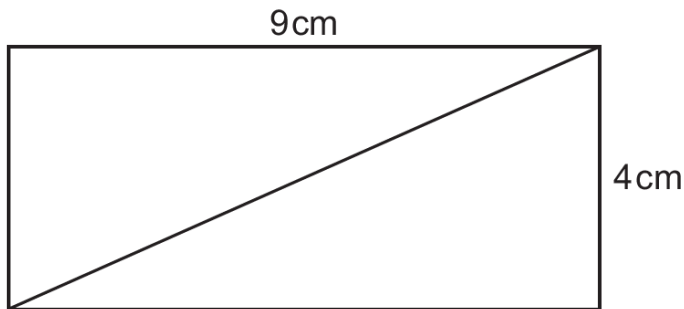


Measurement – Checkpoint Primary Math**1.**

Here is a rectangle made with two triangles.



Not drawn to scale

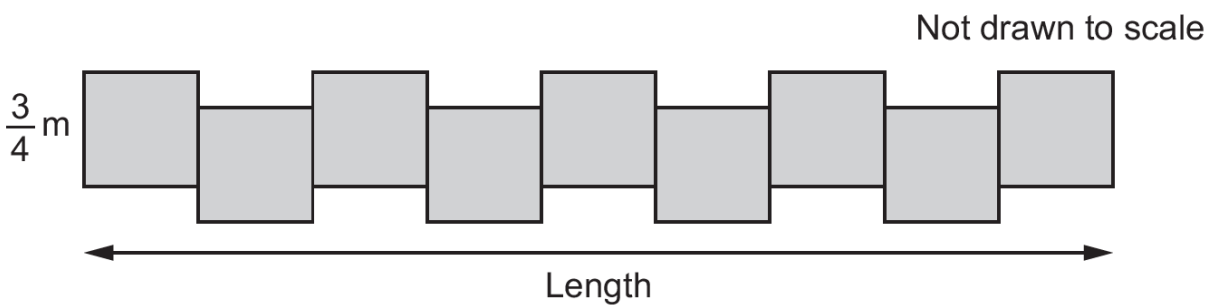
Work out the area of one of the triangles.

..... cm^2 [1]

2.

Lily joins 9 square tiles to make a path.

The length of each tile is $\frac{3}{4}$ metre.



Calculate the length of the path.

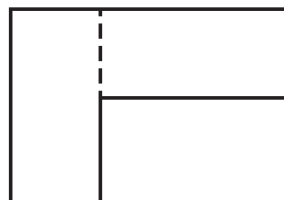
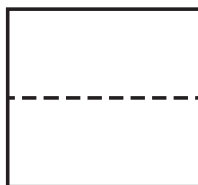
..... metres [1]

3.

Jamila has some identical rectangles.



She joins two rectangles to make these new shapes.



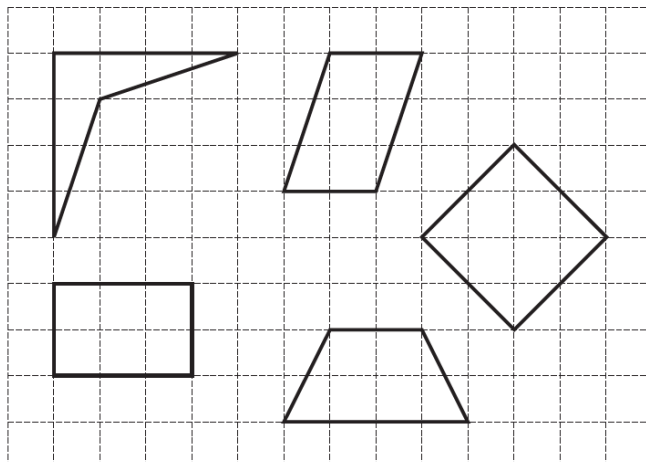
Tick (✓) to show if each statement about Jamila's new shapes is always true, sometimes true or never true.

Statement	Always true	Sometimes true	Never true
The perimeter of each new shape is double the perimeter of one rectangle.			
The area of each new shape is double the area of one rectangle.			

[1]

4.

Here are some shapes drawn on a grid of squares.

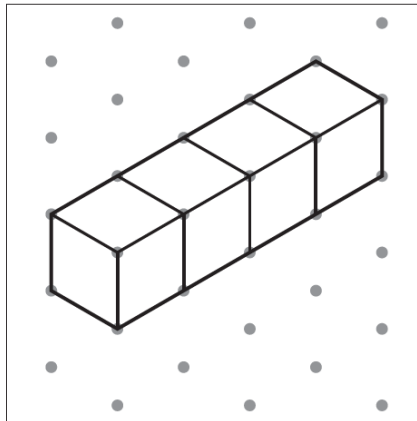


Tick (✓) **two** shapes with the same order of rotational symmetry.

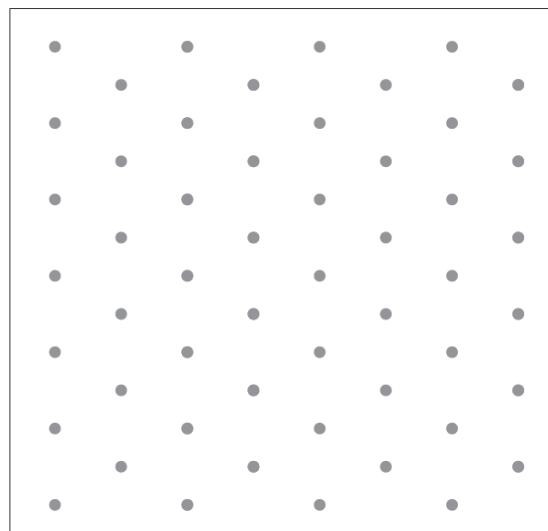
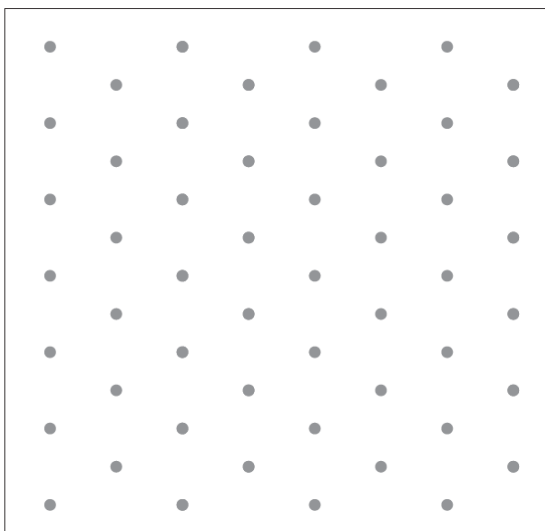
[1]

5.

Mia uses four cubes to make a model.
Here is a sketch of her model.



Sketch two **different** ways to join the four cubes to make a model.
Draw your sketches on the isometric grids.



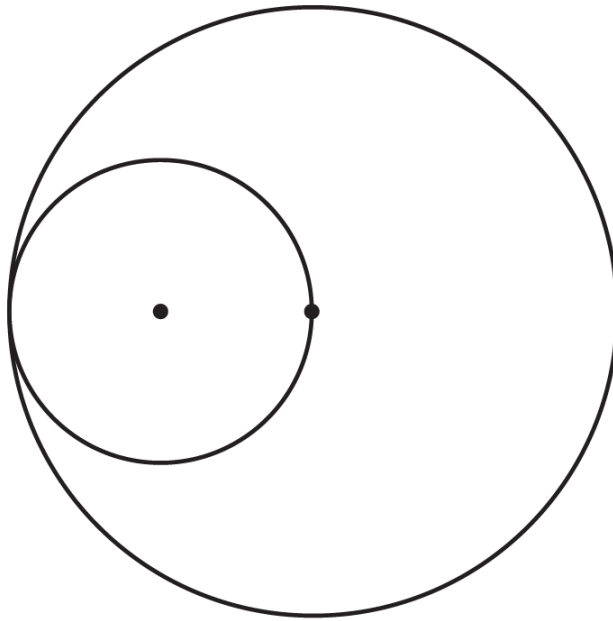
[2]

6.

Here are two circles.

The small circle touches the large circle.

The centre of each circle is marked with a dot.



Not drawn to scale

The length of the diameter of the large circle is 20 centimetres.

Write down the length of the radius of the small circle.

..... centimetres [1]

7.

Yuri is making a model of his garden.

The fence in his garden is 16 metres long.

The fence in his model is 80 centimetres long.

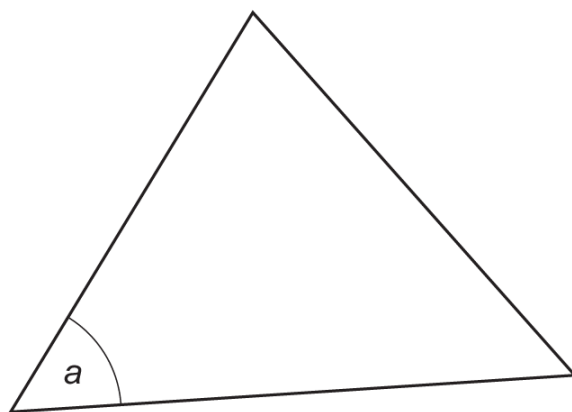
The height of the tallest tree in his garden is 6 metres.

Write the height of the tallest tree in his model.

..... centimetres [1]

8.

Here is a triangle with an angle marked a .

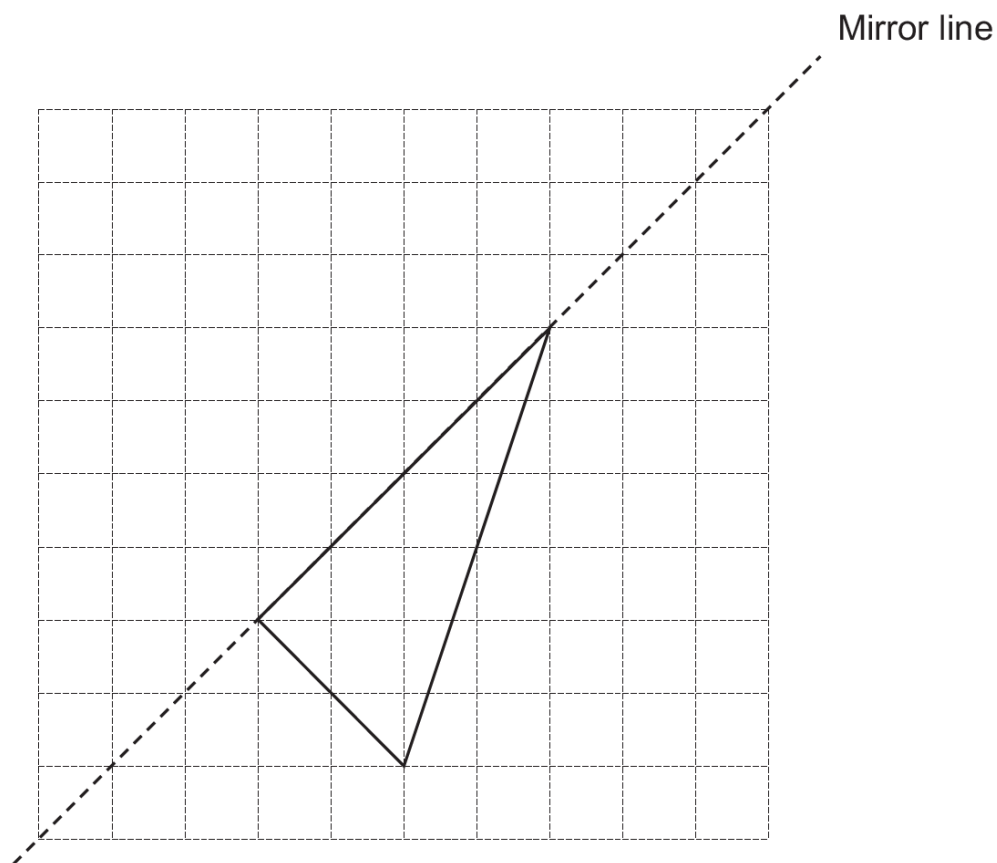


Measure the size of angle a .
Use a protractor.

..... degrees [1]

9.

Here is a triangle drawn on a grid of squares.



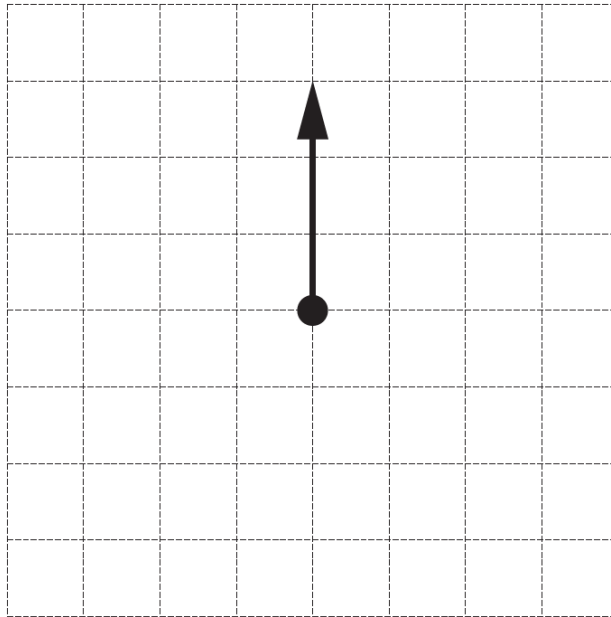
Draw the reflection of the triangle in the mirror line.

[1]

10.

An arrow is drawn on a grid of squares.

The arrow is rotated 90 degrees clockwise around the point marked with a dot.

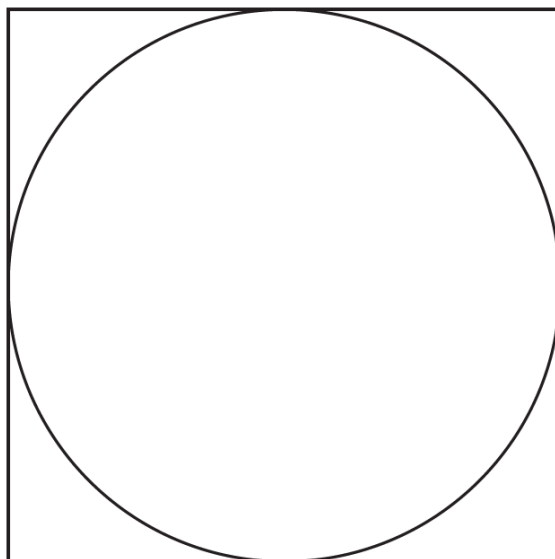


Draw the new position of the arrow after the rotation.

[1]

11.

Here is a circle drawn inside a square.



Here are some words.

centre

radius

diameter

Use **two** of the words to complete these sentences.

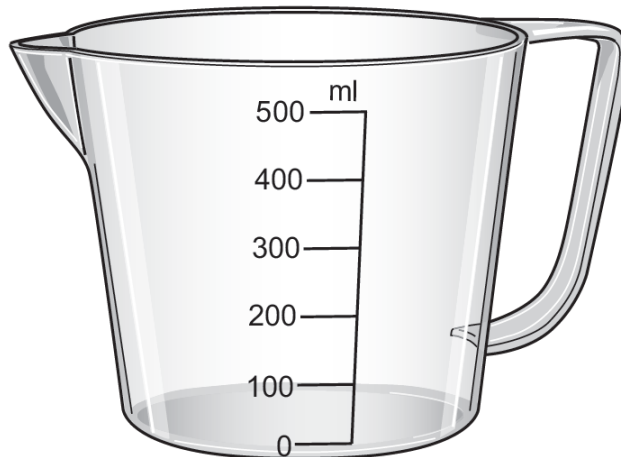
The of the circle is the same length as the side of the square.

The of the square and the circle are the same.

[1]

12.

Here is a jug.



Safia wants to pour 1000 ml of water into the jug.

Explain why this is **not** possible.

Use the words volume **and** capacity in your answer.

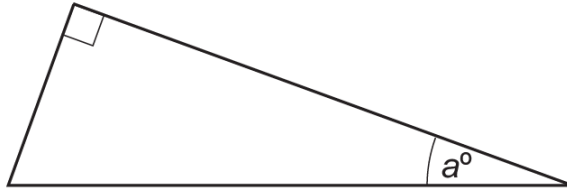
.....

.....

..... [1]

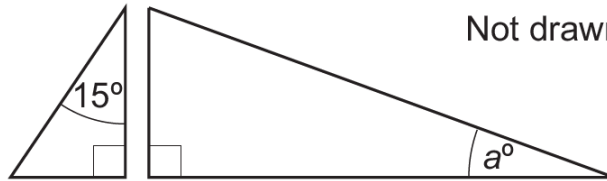
13.

Here is a right-angled triangle.



Not drawn to scale

The triangle is cut into two smaller right-angled triangles.



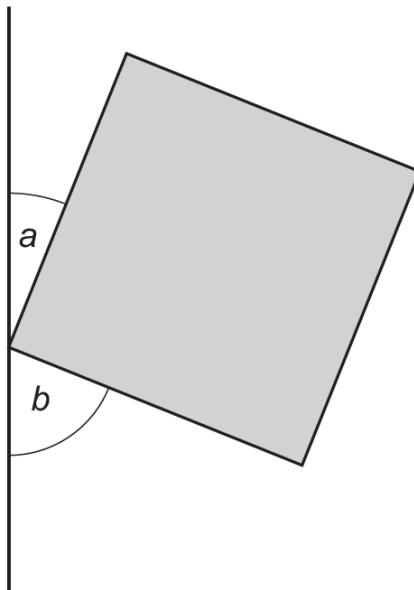
Not drawn to scale

Calculate the size of angle a .
Show your working.

.....[°] [2]

14.

A square is touching a straight line.



Write a pair of possible values for a and b .

$a =$
 $b =$

[1]