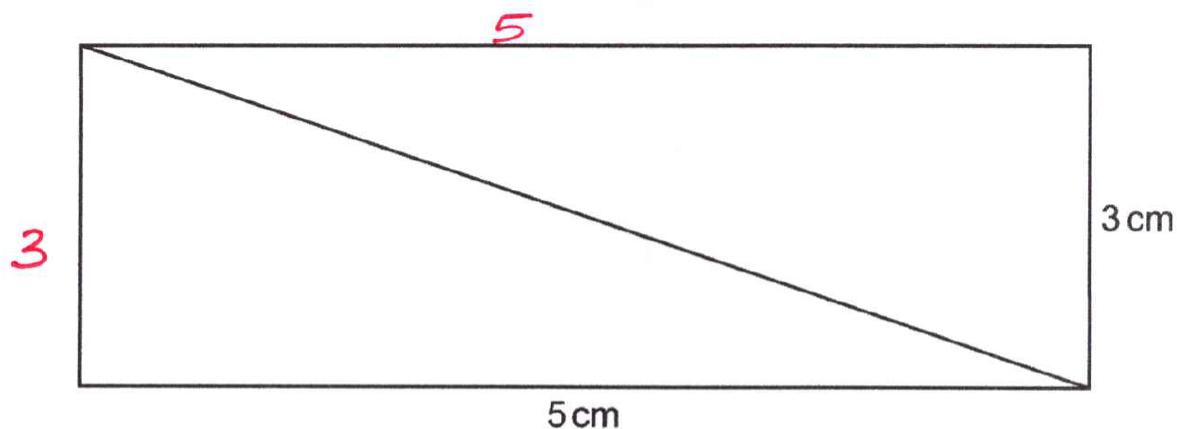


2D and 3D Shapes – 2025 Checkpoint Primary Math Stage 6

1. 1/No.4

Here is a rectangle made from two triangles.

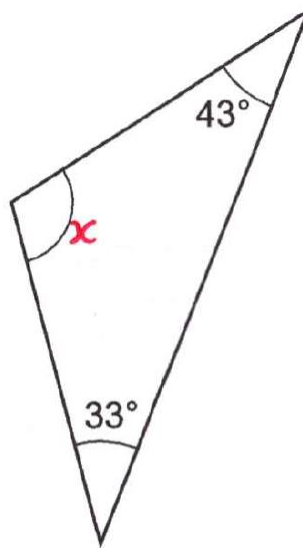
Work out the area of **one** of the triangles.

$$\begin{aligned}\text{Area} &= \frac{1}{2} \times \text{base} \times \text{height} \\ &= \frac{1}{2} \times 5 \times 3 \\ &= \frac{15}{2} = \underline{\underline{7.5 \text{ cm}^2}}\end{aligned}$$

..... 7.5 cm² [1]

2. 1/No.8

Here is a triangle.



Not drawn to scale

The size of two of the angles are marked.

Work out the size of the third angle.

Angles in a triangle add up to 180° .

$$\begin{array}{l}
 43 + 33 + x = 180^\circ \\
 76 + x = 180^\circ
 \end{array}
 \left| \begin{array}{l}
 x = 180 - 76 \\
 x = \underline{104}
 \end{array} \right.
 \quad \text{104} \dots\dots\dots^\circ \quad [1]$$

3. 1/No.12

Write a number in each box to complete the sentences.

All isosceles triangles have 2 equal sides.

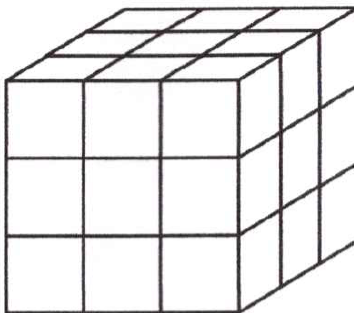
All scalene triangles have 3 different angles.

All equilateral triangles have 3 lines of symmetry.

[1]

4. 1/No.21

Safia uses 27 small white unit cubes to build a larger solid cube.



Safia paints all the faces of the larger cube red.

(a) Write the number of small unit cubes that have three faces painted red.

In the cube there are 8 corners on the corners.
 so faces painted = 8

8

[1]

(b) Write the number of small unit cubes that have no faces painted red.

The centre inside the cube = 1

1

[1]

5. 2/No.2

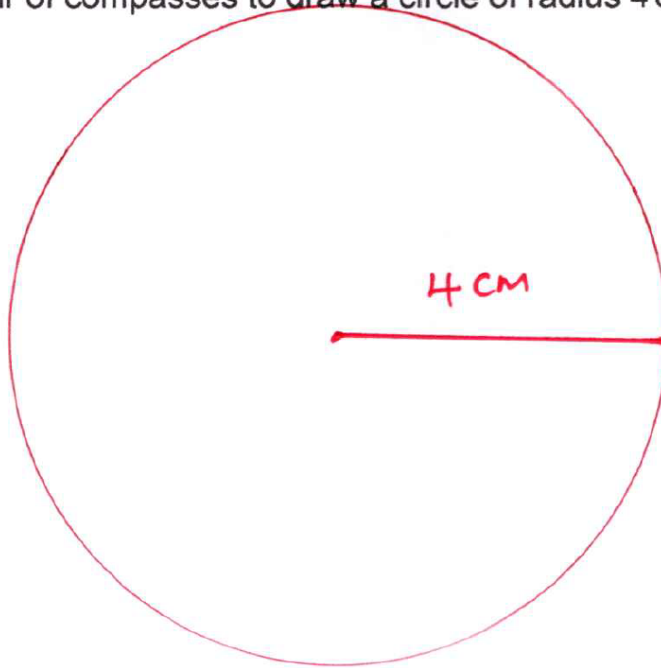
(a) Complete the sentence.

The perimeter of a circle is called the

Circumference

[1]

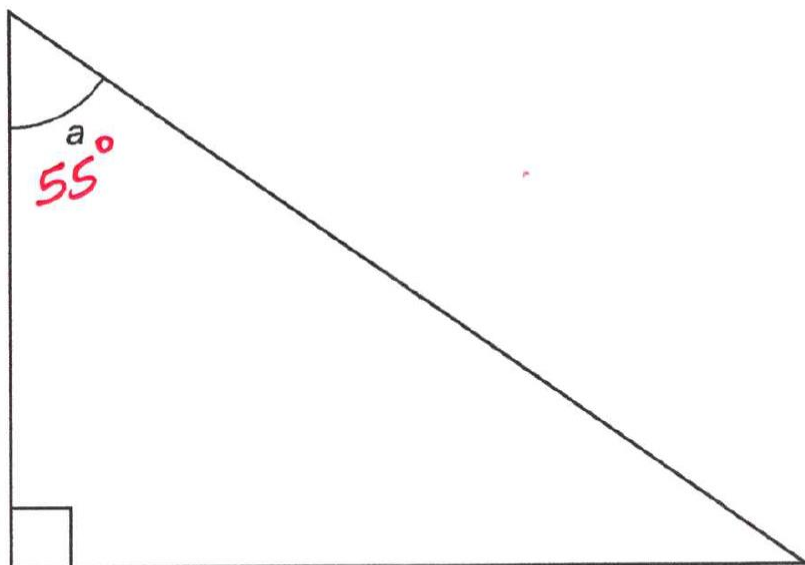
(b) Use a pair of compasses to draw a circle of radius 4 cm.



[1]

6. 2/No.4

Here is a triangle.



Measure angle a .
Use a protractor.

..... 55 ° [1]

7. 2/No.11

Draw a ring around **all** the letters which have rotational symmetry.S

T

OX

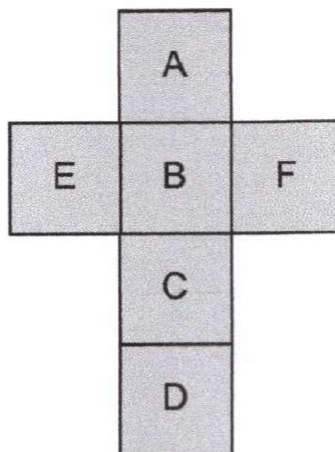
E

L

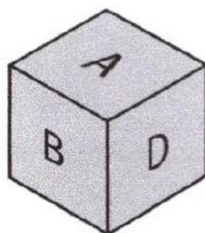
[1]

8. 2/No.15

Here is the net of a cube.



Here is a picture of a cube.



Tick (✓) to show whether this cube can be made from the net shown.

Yes ☐ No ☒

Explain how you know.

The face Labelled D should be labelled F.

[1]