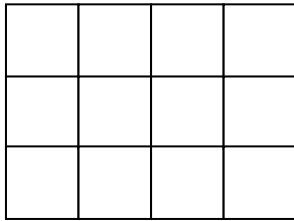


Topic Test 1 (20 minutes)

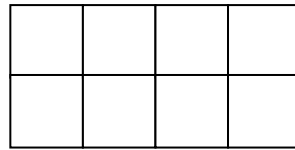
2D representations of 3D shapes - Foundation

You will need compasses, protractor and a ruler to answer some of the questions.

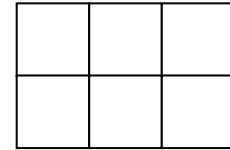
- 1 Here is the plan view, front elevation and side elevation of a cuboid made from 1-centimetre cubes.



Plan view



Front elevation



Side elevation

Circle the volume of the cuboid.

[1 mark]

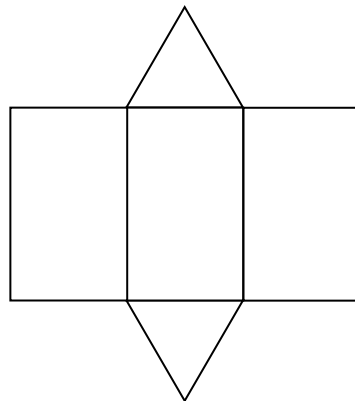
12 cm³

24 cm³

26 cm³

52 cm³

- 2 Here is a net.



Circle the name of the solid formed by the net.

[1 mark]

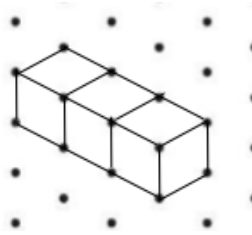
Triangular based pyramid

Rectangular based pyramid

Triangular prism

Tetrahedron

3 Here is a cuboid drawn on a centimetre isometric grid.



Circle the surface area of the cuboid.

[1 mark]

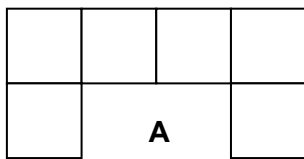
3 cm²

7 cm²

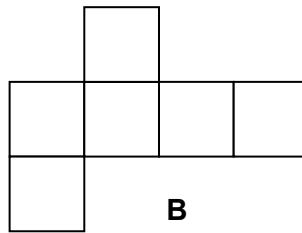
12 cm²

14 cm²

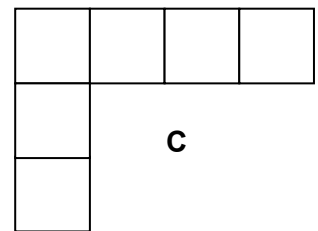
4 Here are 5 nets.



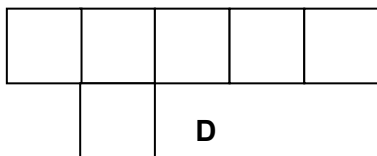
A



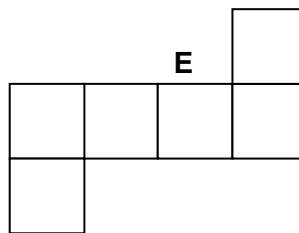
B



C



D



E

Circle the letters that show the nets of a cube.

[2 marks]

A

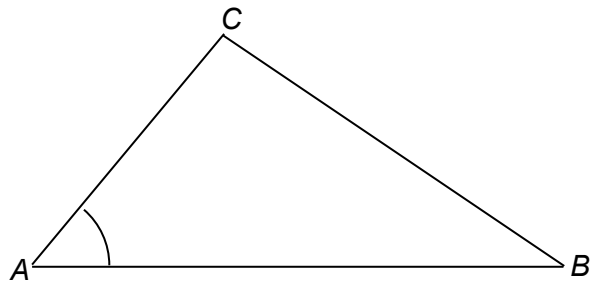
B

C

D

E

5 This triangle is drawn accurately.



5 (a) Measure the length of AB .

[1 mark]

Answer _____ cm

5 (b) Write down the size of angle A .

[1 mark]

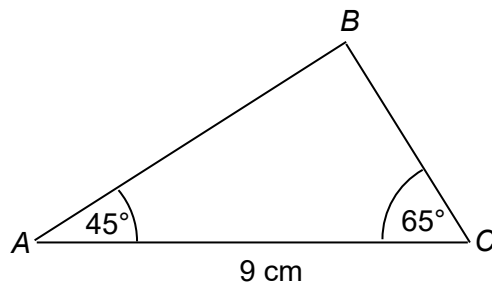
Answer _____ degrees

5 (c) Measure the length BC .
Give your answer in millimetres.

[1 mark]

Answer _____ mm

6 (a) Make an accurate drawing of this triangle.



Not drawn
accurately

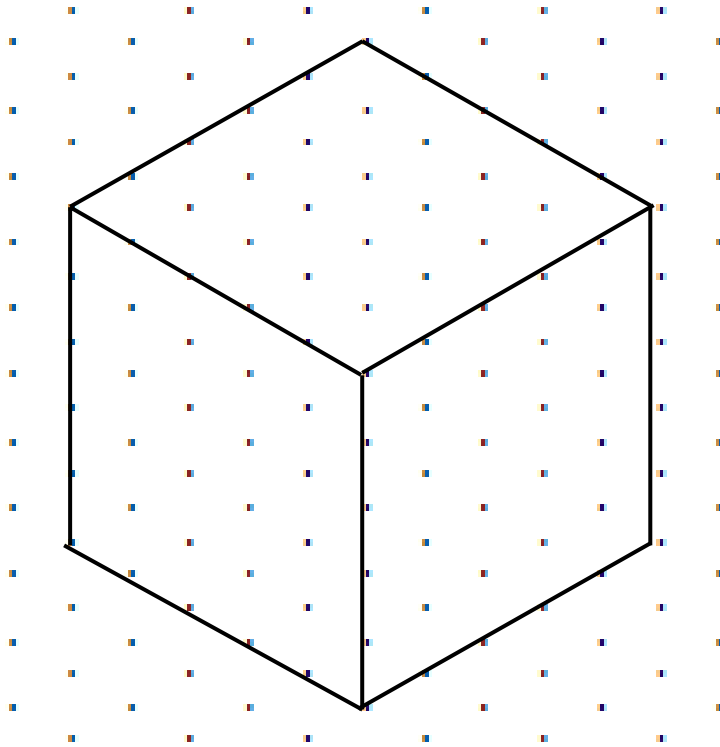
[3 marks]

6 (b) Measure the length of AB .
Give the units of your answer.

[1 mark]

Answer _____

7 A solid 5 cm cube is made using centimetre-cubes.



7 (a) How many centimetre cubes are used to make the 5 cm cube?

[1 mark]

Answer _____

7 (b) Work out the surface area of the 5 cm cube.

[1 mark]

Answer _____ cm^2

The **outside** of the 5 cm cube is painted black.

7 (c) How many of the small cubes will have **three** sides painted?

[1 mark]

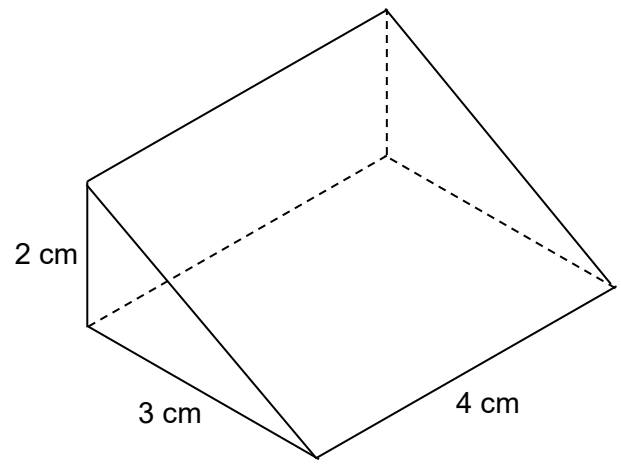
Answer _____

7 (d) How many of the small cubes will have only **one** side painted?

[2 marks]

Answer _____

8 The cross section of this prism is a right-angled triangle.



On the centimetre grid draw an accurate net of the prism.

[3 marks]

