1) Name each 3D shape;

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2) Explain what a **prism** is;

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3) Look at the 3D shape and draw each of the views as indicated;

 Plan view Side elevation Front elevation

4) Draw a **plane of symmetry** on the diagram of the cuboid

Number of **planes of symmetry** ………………..….. Number of **faces** ……………….....

Number of **edges**  …………………… Number of **vertices** ………………….

5) Draw examples of nets for each of the 3D shapes using the centimetre squared grid provided

 Cube with side length 2 cm Cuboid with side lengths 3 cm, 2 cm and 4 cm

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6) Draw a cube with side length 2 cm

 using the isometric dots





**Applied Questions**

1) Circle the nets which are nets of a cube.

2) The diagrams shows a solid made from

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 Direction B

 10 small cubes

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 Direction A

 B

 A

The view from direction A is shown

On the other grid, draw the view from direction B

3) Three faces of this cube have shaded triangles on them.

 The other three faces are blank.

 Draw the shaded triangles on the net of the cube.



4)

Draw the plan view for each of the solids shown

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**A**

 This solid is made from 7 cubes

 The plan view is shown below

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**B**



5) Here is a plan view, front elevation and side elevation

 of a solid made up of cubes.

 Draw the solid on the isometric grid provided.

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**Plan View Front elevation Side elevation**

6) Euler’s formula for polyhedrons states that V – E + F = 2, where V is the number of vertices, E is the number

 of edges and F is the number of faces. Show that this formula works for a cube and a tetrahedron.

  **Cube: Tetrahedron:**

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