



Maths-it Podcast F-16

Foundation GCSE Revision

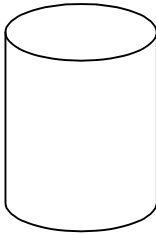
2-D and 3-D shapes

Topics

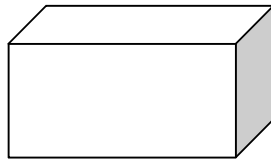
Naming 3-D shapes – Nets – Elevations – Parallel and perpendicular

Questions

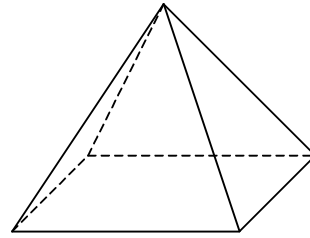
1. Write down the mathematical name for each of these three different 3-D shapes.



(i)



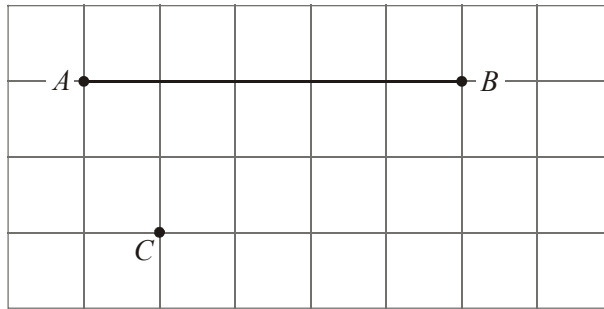
(ii)



(iii)

(Total 3 marks)

2.



(a) On the grid, draw a line from the point C perpendicular to the line AB .

(1)

(b) Sketch a cylinder in the space below.

(1)
(Total 2 marks)

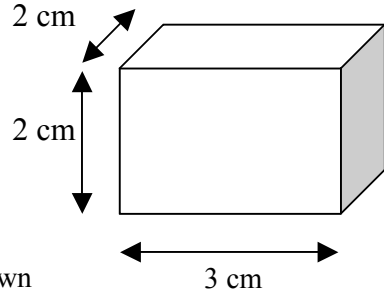


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2-D and 3-D shapes

3. Here is a solid cuboid of sides 2 cm, 2 cm and 3 cm.



- (a) Write down
 - (i) the number of faces of the cuboid,
 - (ii) the number of vertices of the cuboid,
 - (iii) the number of edges of the cuboid.

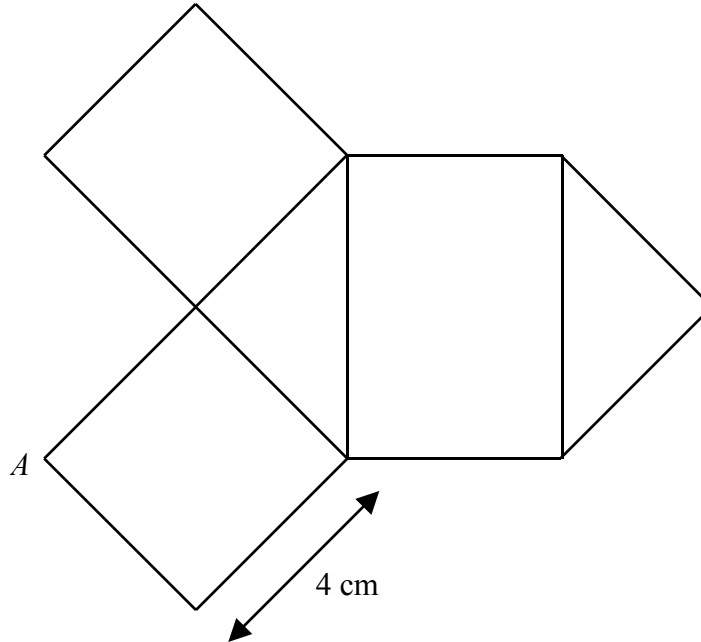
(3)

- (b) Draw an accurate net of this cuboid.

(3)

(Total 6 marks)

4. Here is a net of a triangular prism.



The net is folded to make the prism.
Two other vertices meet at A .

- (a) Mark each of them with the letter A .

(2)

Two of the faces are square, with length 4 cm.
Two of the faces are **right-angled** triangles, the other face is a rectangle.

- (b) Work out the volume of the prism.

.....cm³

(2)

(Total 4 marks)



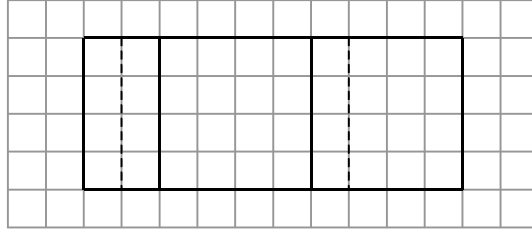
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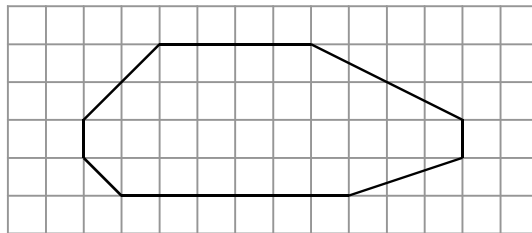
2-D and 3-D shapes

5. Here are the plan and front elevation of a prism.
The front elevation shows the cross section of the prism.

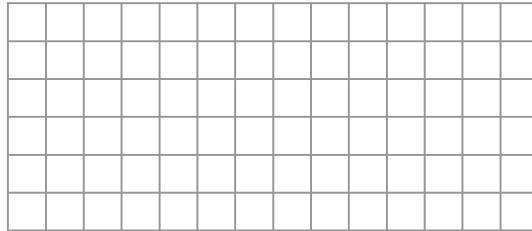
Plan



Front elevation



- (a) On the grid below, draw a side elevation of the prism.



- (b) In the space below, draw a 3-D sketch of the prism.

(3)

(2)
(Total 5 marks)



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2-D and 3-D shapes

6. Here are the plan, front elevation and side elevation of a 3-D shape made from joining five cubes.

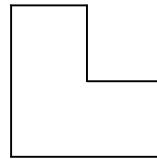
Plan



Front



Side



In the space below, draw a sketch of the 3-D shape.

(Total 2 marks)

7. Draw an accurate drawing of a parallelogram with sides 7 cm and 10cm in the space below.

(Total 2 marks)