



Name: _____ **Date:** _____ **Score:** _____ / 41

- 1** A net folds to make a triangular prism.
How many triangles and how many rectangles are in the net?

(2 marks)

Answer _____

- 2** A net is made from one square and four identical triangles.
Write down the name of the solid it folds to make.

(2 marks)

Answer _____

- 3** a. Write down the number of faces of a cube.
b. Write down the number of vertices of a cube.

(2 marks)

Answer _____

- 4** A net is made from two circles and one rectangle.
Write down the name of the solid it folds to make.

(2 marks)

Answer _____

- 5** A 3D solid has exactly one square face and four triangular faces.
a. Write down the mathematical name of this solid.
b. Write down the number of edges of this solid.

(2 marks)

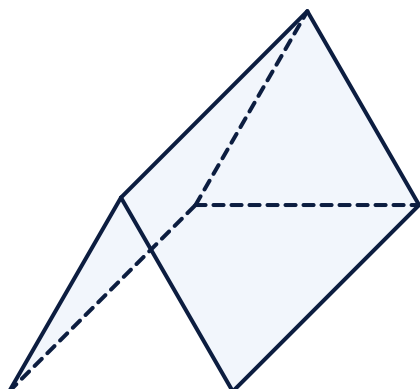
Answer _____

- 6 A cube has sides of length 4 cm.
Work out the total area of the net of the cube.

(2 marks)

Answer _____

- 7 Here is a triangular prism.
a. Write down the number of faces of a triangular prism.
b. Write down the number of edges of a triangular prism.



(2 marks)

Answer _____

- 8 Sam draws a net made of 5 identical squares and says it will fold to make a cube.
Is Sam right? Give a reason.

(2 marks)

Answer _____

- 9 a. A 3D solid has one curved surface, no edges and no vertices. Write down the mathematical name of this solid.
b. A different 3D solid has two flat circular faces and one curved surface. Write down the mathematical name of this solid.

(2 marks)

Answer _____

- 10** A cuboid measures 5 cm by 3 cm by 2 cm.
Work out the total area of the net of the cuboid.

(3 marks)

Answer _____

- 11** a. A 3D solid has exactly one circular face and one vertex. Write down the mathematical name of this solid.
b. In the space below, draw a sketch of a cuboid.

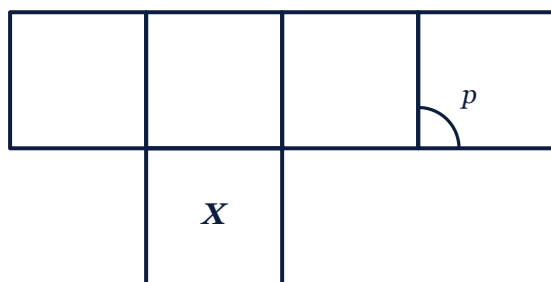
(2 marks)

Answer _____

- 12 The diagram shows the net of a cube. It is made from 6 identical squares.

The net is folded to make the cube.

- The face marked X is the bottom of the cube. Shade the face that is the top of the cube.
- Write down the size of angle p .
- Write down the number of edges of the cube.



(3 marks)

Answer _____

- 13 A prism has 9 edges.

- What shape is the cross-section of the prism?
- How many faces does the prism have?

(3 marks)

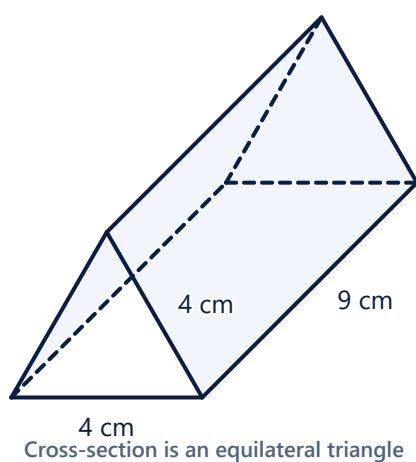
Answer _____

- 14 A prism has a cross-section that is a pentagon.
- Write down the number of faces of the prism.
 - Write down the number of edges of the prism.
 - Write down the number of vertices of the prism.

(3 marks)

Answer _____

- 15 A prism has a cross-section that is an equilateral triangle with sides of length 4 cm. The length of the prism is 9 cm. Work out the total length of all the edges of the prism.



(3 marks)

Answer _____

- 16** A prism has a cross-section that is a regular octagon with sides of length 3 cm.
The length of the prism is 10 cm.
- Write down the number of edges of the prism.
 - Work out the total length of all the edges of the prism.

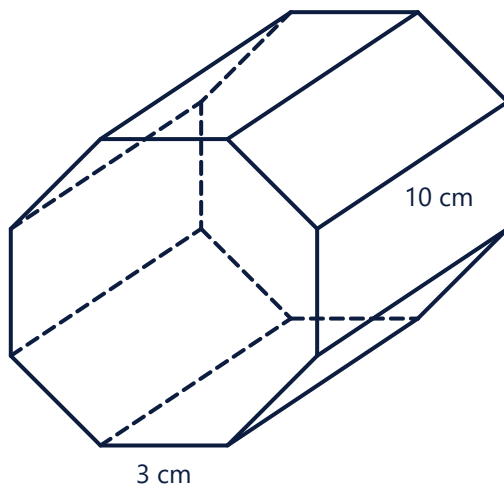


Diagram NOT accurately drawn

(3 marks)

Answer _____

- 17** The ends of a triangular prism are right-angled triangles with sides 3 cm, 4 cm and 5 cm.
The prism is 10 cm long.
Work out the total area of the net of the prism.

(3 marks)

Answer _____

End of questions | Total 41 marks