

3D Shapes, Faces, Edges and Vertices

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

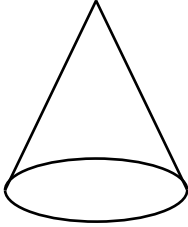
- In all calculations, show clearly how you work out your answer.

1 There are 7 different 3D shapes below.

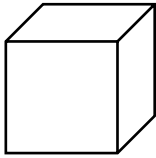
(Level 3)

Match the 3D shapes with its correct name by drawing a line between them.

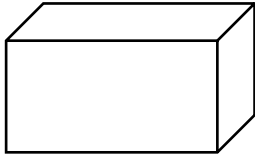
[5 marks]



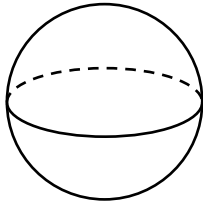
Triangular prism



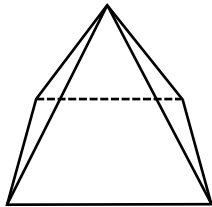
Cube



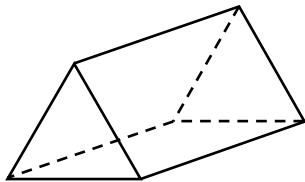
Sphere



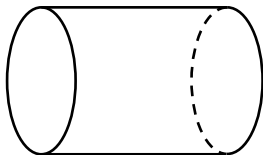
Cone



Cuboid



Square-based
pyramid

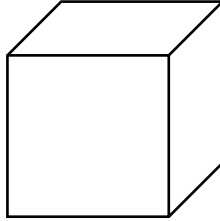


Cylinder

2 Give the number of faces, edges and vertices of the following shape

(Level 3)

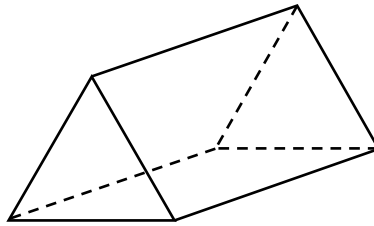
[3 marks]



Faces: _____ Edges: _____ Vertices: _____

3 Give the number of faces, edges and vertices of the following shape

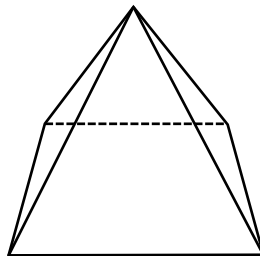
[3 marks]



Faces: _____ Edges: _____ Vertices: _____

4 Give the number of faces, edges and vertices of the following shape

[3 marks]



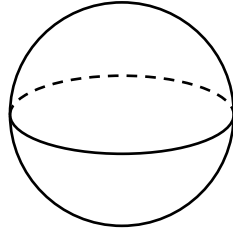
Faces: _____ Edges: _____ Vertices: _____

Turn over for next question

5 Give the number of faces, edges and vertices of the following shape

(Level 3)

[3 marks]



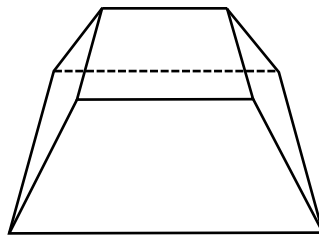
Faces:

Edges:

Vertices:

6 Give the number of faces, edges and vertices of the shape below:

[3 marks]



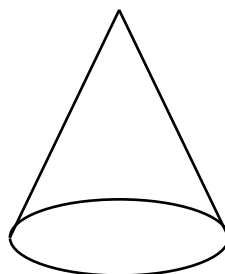
Faces:

Edges:

Vertices:

7 Give the number of faces, edges and vertices of the following shape

[3 marks]



Faces:

Edges:

Vertices:

End of questions