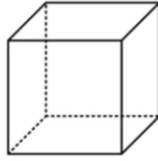


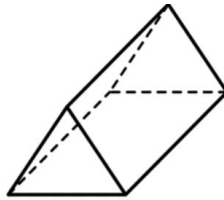
# PROPERTIES OF SOLIDS

- 1) The diagram of a cube is shown below. State the number of faces the cube has.



**6 faces**

- 2) The diagram of a triangular prism is shown below. State the number of vertices the triangular prism has.



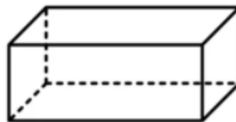
**6 vertices**

- 3) The diagram of a square-based pyramid is shown below. State the number of edges the square-based pyramid has.



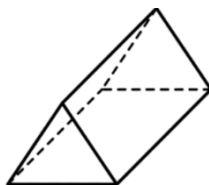
**8 edges**

- 4) A cuboid has 12 edges. How many vertices does it have?



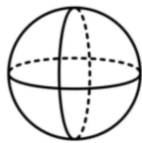
**8 vertices**

- 5) The diagram of a triangular prism is shown below. State the number of faces the triangular prism has.



**5 faces**

6) The diagram of a sphere is shown below. State the number of faces the sphere has.

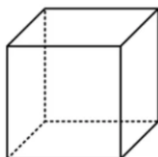


1 face

7) A 3D shape has 6 faces, all of them rectangles. What is the name of the shape?

Cuboid

8) How many vertices does a cube have?



8 vertices

9) The base of a 3D shape is a triangle. The shape has three additional faces that meet at a point. What is the name of the shape?

Triangular-based pyramid

10) How many vertices does a square based pyramid have?



5 vertices

11) What is the difference between the number of faces and the number of vertices a cube has?

6 faces, 8 vertices

$$8 - 6 = 2$$

12) A shape has 1 square base and 4 triangular faces meeting at a point.

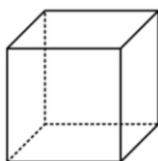
a. How many faces does it have?

5 faces

b. State the name of the shape.

Square-based pyramid

13) How many edges does a cube have?



12 edges

14) The diagram of a cone is shown below. State the number of faces the cone has.

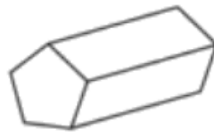


2 faces

15) Work out the difference between the number of edges a cuboid has and the number of edges a triangular prism has.

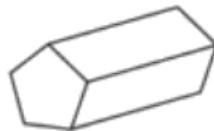
$$12 - 9 = 3$$

16) A pentagonal prism is shown below. State the number of edges the solid has.



15 edges

17) A pentagonal prism is shown below. State the number of vertices the solid has.



10 vertices

18) A prism has 8 vertices and 12 edges. State the name of the shape.

Cube or cuboid

19) A triangular prism has two faces that are scalene right-angled triangles. How many identical sized faces does it have?

2

20) How many edges does a trapezium prism have?



12 edges

21) The net of a shape shows two circles and a rectangle. What 3D shape will it form?

Cylinder

22) State the number of faces a heptagonal prism has.

9 faces

23) A shape has 6 vertices, 9 edges, and 5 faces. What is it?

Triangular prism

24) How many edges does a hexagonal prism have?

**18 edges**

25) A 3D shape has two identical faces at each end and 8 identical rectangular faces. What prism could it be?

**Regular octagonal prism**

26) How many faces does the frustum of a cone have?

**3 faces**