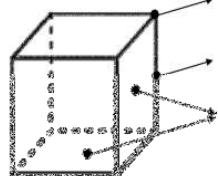


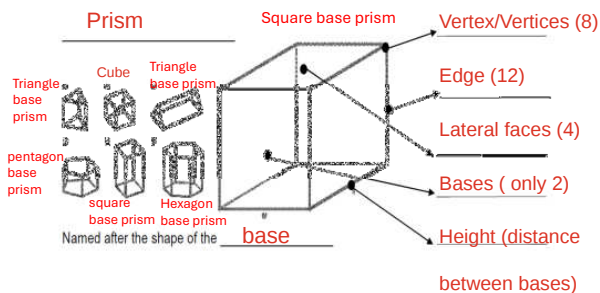
# Unit 5

## L2 Properties of 3D

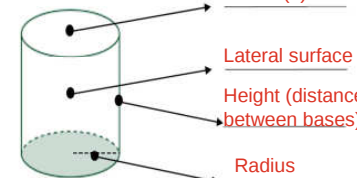
Cube



Vertex/Vertices (8)  
Edge (12)  
Faces (6): Lateral (4)  
Bases (2)



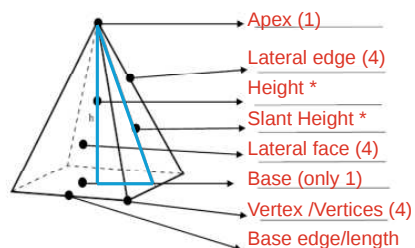
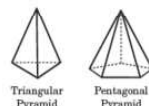
Cylinder



No Vertices  
No Edges

Pyramid

Named after the shape of the Base

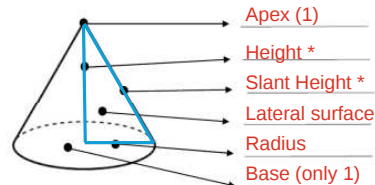


$$* s^2 = h^2 + \left(\frac{b}{2}\right)^2$$

Cone

Edges

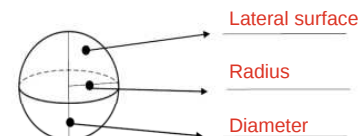
No



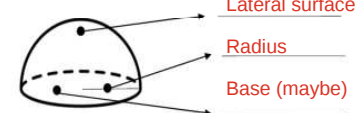
$$* s^2 = h^2 + r^2$$

Sphere

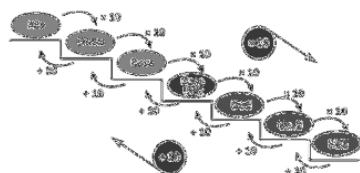
No Vertices  
No Edges  
No Bases



Hemisphere



## Unit conversion

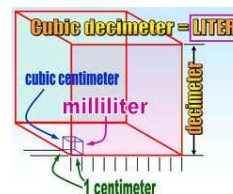


- Always check that units are matching before you start a question
- To convert Area (unit<sup>2</sup>) multiply or divide by 100 (10<sup>2</sup>)
- To convert Volume (unit<sup>3</sup>) multiply or divide by 1000 (10<sup>3</sup>)

- A) **Volume** is the quantity of space that an object occupies  
**Capacity** is the volume of the hollow part of an object.

- B) The cubic decimetre (dm<sup>3</sup>) corresponds to a cube with edge 1 dm (10 cm)

1 m<sup>3</sup> = 1 KL  
1 dm<sup>3</sup> = 1 L  
1 cm<sup>3</sup> = 1 mL



- C) 1 L of water = 1 kg  
at standard temperature and pressure

Practice:  
5.4 # 1,2

