Cube

Cuboid

Sphere

Pyramid

Cylinder

Cone

Cuboid

5 cm

10 cm

3 cm

Units
Volume: mm^3, cm^3, m^3
Surface Area: mm^2, cm^2, m^2
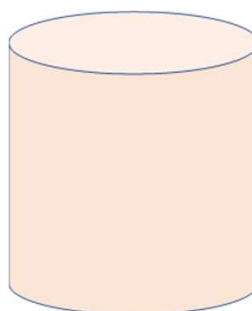
Volume
The amount of space inside the shape.

Volume of a cuboid = length × width × height

Volume $= 5 \times 3 \times 10 = 150$ **Volume** $= \mathbf{150\ cm^3}$

Surface Area
The total area of each of the faces.

Surface Area $= 2 \times (3 \times 5) + 2 \times (3 \times 10) + 2 \times (10 \times 5)$

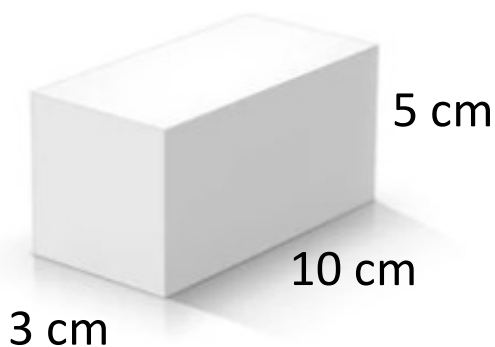Surface Area $= 2 \times 15 + 2 \times 30 + 2 \times 50$

Surface Area $= 30 + 60 + 100$

Surface Area $= 190$ **Surface Area** $= \mathbf{190\ cm^2}$
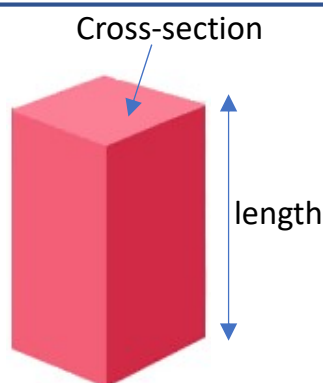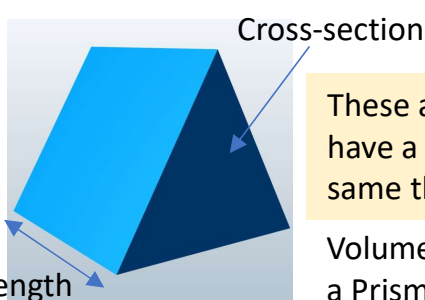
Prisms

Cross-section

Cross-section

length

length

Cross-section
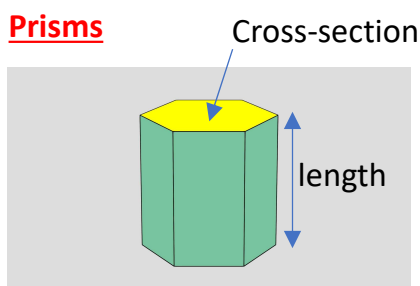
length
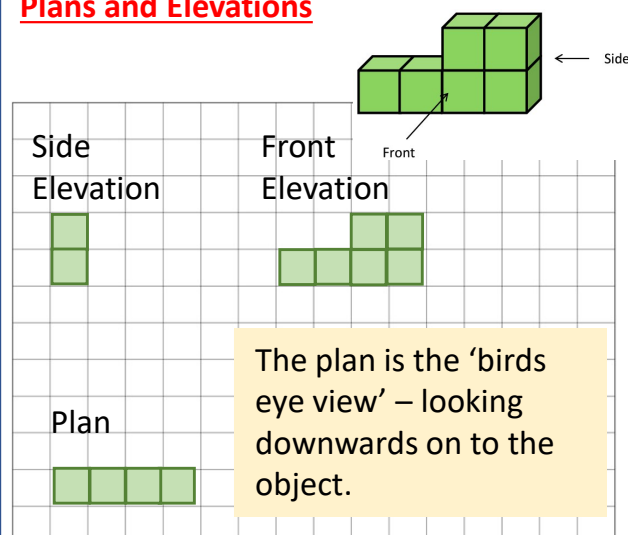
These are all cuboid. They all have a cross section which is the same throughout the shape.

$$\text{Volume of a Prism} = \text{Cross section} \times \text{length}$$

Plans and Elevations

Side

Front

Side Elevation

Front Elevation

Plan

The plan is the 'birds eye view' – looking downwards on to the object.