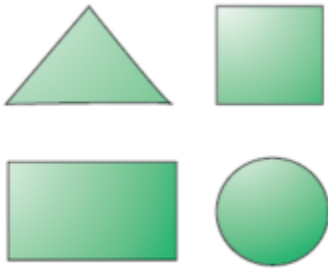


CHAPTER 10- Visualising Solid Shapes

MODULE 1-2

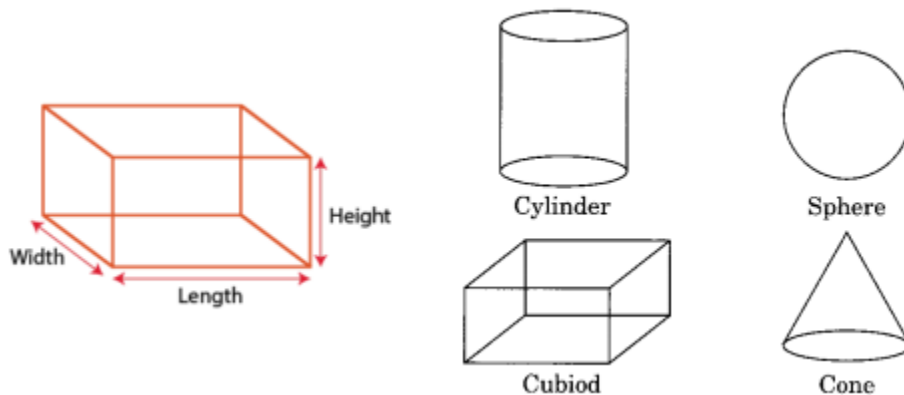
Two-Dimensional Object

A shape with only **two dimensions** (such as length and width) and no thickness is called two-dimensional shape. Squares, Circles, Triangles, etc are two dimensional objects. Also known as “**2D**”.







Three Dimensional Objects- Solids



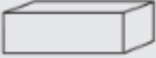

Shapes which can be measured in 3 directions are called **three-dimensional shapes**. These shapes are also called **solid shapes**. Length, width, and height (or depth or thickness) are their dimensions.



Match the following:

For the given shapes write its type of shape(2-D or 3-D) and its shape

Shape	Type of Shape	Name of the shape
	3-dimensional	Sphere
	2-Dimensional	Cylinder
	3-dimensional	Square
	2-dimensional	Circle

	3-dimensional	Cuboid
	3-dimensional	Cube
	2-dimensional	Cone
	3-dimensional	Triangle

Combination of different shapes:



A tent
A cone surmounted on a cylinder



A tin
A cylindrical shell



Softy (ice-cream)
A cone surmounted by a hemisphere






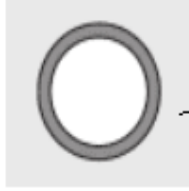

A photoframe
A rectangular path



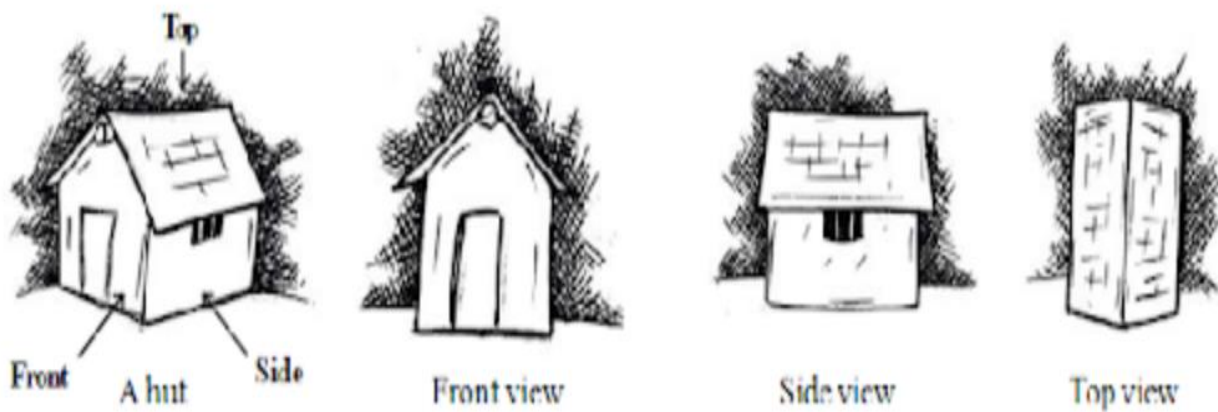
A bowl
A hemispherical shell



Tomb on a pillar
Cylinder surmounted

Picture (object)		Shape
(i) An agricultural field		Two rectangular cross paths inside a rectangular park.
(ii) A groove		A circular path around a circular ground.
(iii) A toy		A triangular field adjoining a square field.
(iv) A circular park		A cone taken out of a cylinder.
(v) A cross path		A hemisphere surmounted on a cone.

Views of 3-D shapes:



Example 1: Look at different views of glass from different positions.



A glass

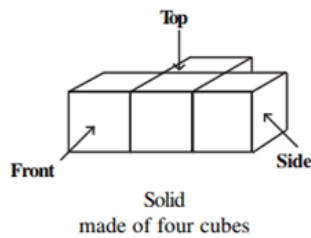


Side view



Top view

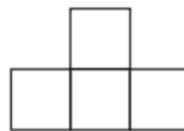
Example 2: Look at different views of solid made of four cubes.



Side view



Front view



Top view

Example 3: Draw the top and side views for following objects:



(a)



(b)

Solution: The top and side views for given figures are:

a)

Top view

Side view



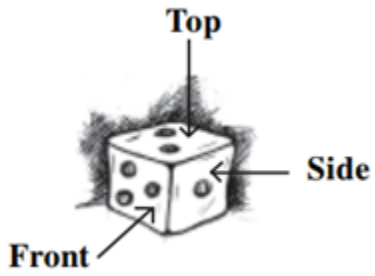
b)

Top view

Side view



Example 4: Draw the front view, side view and top view for given figure:



Solution:

Front view



Side view



Top view

