# SHAPES AND PATTERNS

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## SHAPES →

Shapes are of 2 types.

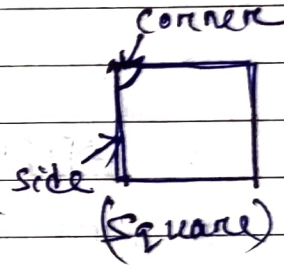
* Plane shapes or 2dimensional shapes
* Solid shapes or 3dimensional shapes

**Plane shapes :→** Plane shapes are two dimensional shapes. The straight lines that make up plane shape are called sides. The points where two sides meet are called corners.

Squares, triangles, rectangles and circles are plane shapes.

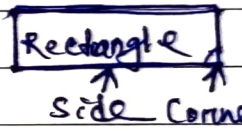
**Square →**

* A square has 4 equal sides.
* It has 4 corners.



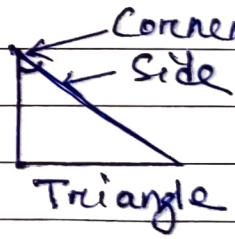

**Rectangle →**

* A rectangle has 4 sides.
* It has 4 corners.
* Two opposite sides of a rectangle have equal lengths.



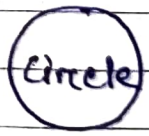

**Triangle →**

* A triangle has 3 sides and 3 corners.




**Circle →**

* A circle has no sides and no corners.




**Solid shapes :→** Solid shapes are 3 dimensional shapes as they have 3-dimensions - length, breadth and height. Solid shapes also have faces, edges and corners.

Surface of a solid shape is called its Face.

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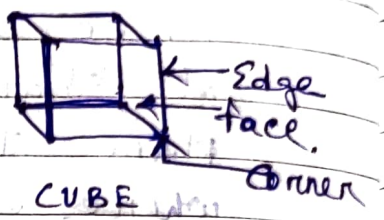
Two faces meet at an edge.
Two or more edges meet at a corner.
Cube, cuboid, ~~triangle and~~ sphere, cylinder, cone are solid shapes.

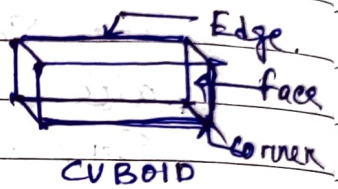
**Cube -**

* A cube has 6 faces.
* It has 12 edges.
* It has 8 corners.



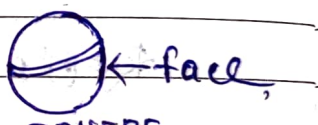

**Cuboid -**

* A cuboid has 6 faces 12 edges and 8 corners.



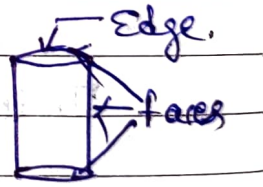

**sphere -**

* A sphere does not have edges and corners.
* It has one curved face.



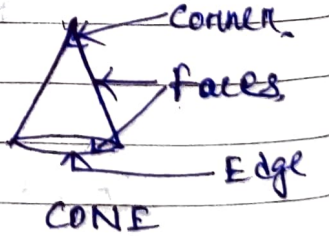

**cylinder -**

* A cylinder has 3 faces (2 are plane and 1 is curved)
* It has 2 edges (curved)
* It has no corners.



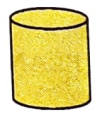

**Cone -**

* A cone has 2 faces. (1 curved and 1 plane)
* It has 1 corner and 1 edge.



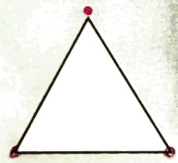

(Note: 2 dimensional (have only length and breadth)
3 dimensional (have length, breadth and height))

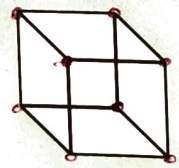
How many faces, edges and corners do they have? Remember

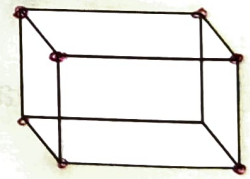
| SOLID SHAPE | | FACES | | EDGES | | CORNERS |
|---|---|---|---|---|---|---|
| | | PLANE | CURVED | STRAIGHT | CURVED | |
| Cube |  | 6 | 0 | 12 | 0 | 8 |
| Cuboid |  | 6 | 0 | 12 | 0 | 8 |
| Sphere |  | 0 | 1 | 0 | 0 | 0 |
| Cone |  | 1 | 1 | 0 | 1 | 1 |
| Cylinder |  | 2 | 1 | 0 | 2 | 0 |

ENRICHMENT ACTIVITY Do in book.

**A. Mark pink dots on the corners of each figure.**

1. 

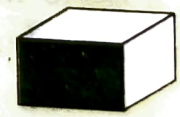
2. 

3. 

CHECKPOINT!

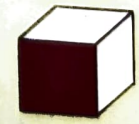
**B. Match the basic plane shape with the coloured face of the solid shape.**

1. 
2. 
3. 
4. 

a. 

b. 

c. 

d. 

## EXERCISE 6.2

Do in book.

Colour it if you get all your sums right.

**A. Name the solid shape.**

1. 

cylinder

2. 
sphere

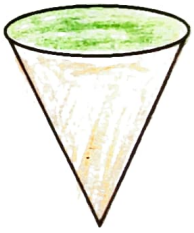
3. 
cuboid

4. 
cone

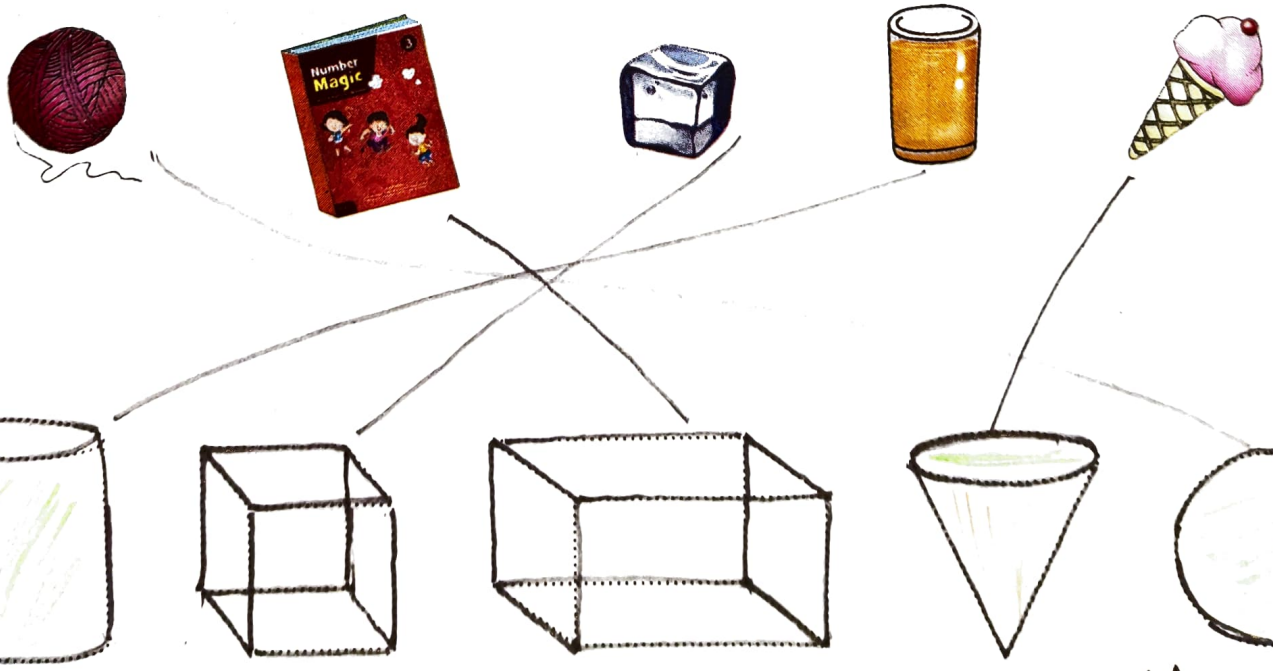
**B. Colour the faces of the following in two different colours of your choice.**

1. 

2. 

3. 

**C. Match these objects with their appropriate solid shape. Draw on the dotted lines and colour.**




colour it