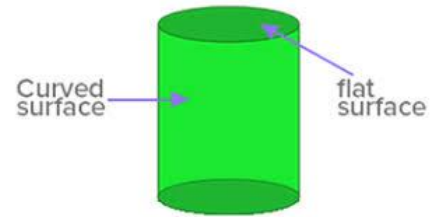


## Plane and Curved Surfaces

### Understanding Notes

- Every solid object has surfaces
- A surface is the outside or outer face of a solid object
- There are two types of surfaces – plane surfaces and curved surfaces
- A plane surface is flat and even
- A curved surface is round or bent
- Some objects have only plane surfaces, some have only curved surfaces, and some have both
- Real-world objects help us to understand surface types better



### Example: (Easy – Plane surface)

- A book has flat surfaces on the front and back
- They are not round or bent

**Answer** = Plane surface

### Example: (Easy – Curved surface)

- A football is round from all sides
- It has no flat surface

**Answer** = Curved surface

### Example: (Moderate – Object with both surfaces)

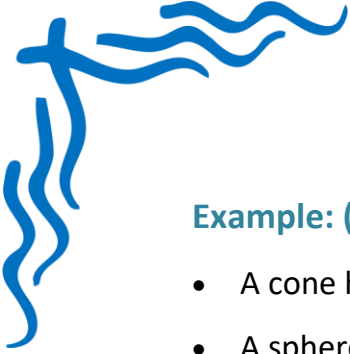
- A cylinder like a tin can has flat surfaces at the top and bottom
- It has a curved surface around the sides

**Answer** = It has both plane and curved surfaces

### Example: (Moderate – Identify from daily object)

- A dice has 6 flat faces
- All the faces are square-shaped and flat

**Answer** = Plane surfaces



### Example: (Moderate – Compare two objects)

- A cone has one curved surface and one flat surface at the base
- A sphere like a ball has only curved surface
- So, cone = plane + curved
- Sphere = only curved

### Summary Points

- Plane surface is flat and even like in books or boxes.
- Curved surface is rounded or bent like in balls or bottles.
- Some solids have both types of surfaces like cylinders and cones.
- Identifying surfaces helps us understand shapes better.
- Real-world objects are good examples to learn about surfaces.