

CHAPTER-11 | : Surface Areas and Volumes

QUIZ
PART-2

1. The perimeter of a 1D shape is:

- A. Area
- B. Length
- C. Width
- D. Total length of all sides (D)

Explanation: Perimeter is the total length of all sides of a shape.

2. A 2D shape has:

- A. Length, width, and height
- B. Only length
- C. Length and breadth
- D. Volume (C)

Explanation: A 2D shape has length and breadth.

3. A 3D shape includes:

- A. Only volume
- B. Height, length, and width
- C. Length only
- D. Perimeter only (B)

Explanation: A 3D shape has length, width, and height.

4. The surface area of a cuboid is:

- A. $2(lw + wh + hl)$
- B. $6 \times \text{side}^2$
- C. $4 \times \text{side}^2$
- D. $l \times b \times h$ (A)

Explanation: Total surface area of cuboid is $2(lw + wh + hl)$.

5. Volume of a cube is calculated as:

- A. $4 \times \text{side}$
- B. side^2
- C. side^3
- D. $6 \times \text{side}^2$ (C)

Explanation: Volume of cube = side^3 .

6. The volume of a cuboid is:

- A. $l \times b \times h$
- B. $2l + 2b$
- C. $l \times b$
- D. $4 \times \text{side}^2$ (A)

Explanation: Volume of cuboid = length \times breadth \times height.

7. The formula for the surface area of a cylinder is:

- A. $2\pi r^2$
- B. $2\pi rh$
- C. $4\pi r^2$
- D. $2\pi r^2h$ (B)

Explanation: Surface area of cylinder = $2\pi rh$.

8. The radius of a sphere is the distance from:

- A. The center to any point on the surface
- B. Any point to the center
- C. The bottom to the top
- D. One edge to the opposite edge (A)

Explanation: The radius is the distance from the center to the surface.

9. The area of a square is calculated as:

- A. side \times side
- B. $4 \times \text{side}$
- C. $l \times b$
- D. side^3 (A)

Explanation: Area of square = side^2 .

10. If the perimeter and area of a circle are equal, the radius is:

- A. 2 units
- B. 4 units
- C. π units
- D. 7 units (C)

Explanation: When the perimeter (circumference) and area are equal, the radius is π units.