

CHAPTER-4 | Exploring Some Geometric Themes

QUIZ PART-06

1. The outline of a solid in any view represents —
 A. Only hidden edges
 B. Only internal structure
 C. The outer visible boundary
 D. The centre lines of the object (C)

Explanation : The outline is the outer visible boundary of the solid as seen from a particular viewpoint.

2. A cube seen from the side will appear as —
 A. Triangle
 B. Square
 C. Circle
 D. Line (B)

Explanation: The side face of a cube is a square, so its profile appears square.

3. Which solid can have a circular outline from a suitable viewpoint?
 A. Cube
 B. Cone
 C. Cylinder
 D. Pyramid (C)

Explanation: Looking at the circular face of a cylinder gives a circular outline.

4. Which solid can show a triangular outline from the side?
 A. Cone
 B. Sphere
 C. Cube
 D. Cylinder (A)

Explanation: The side profile of a cone appears triangular.

5. A sphere viewed from any direction appears as —
 A. Square
 B. Triangle
 C. Circle
 D. Rectangle (C)

Explanation : A sphere always produces a circular outline regardless of the viewpoint.

6. The profile of a solid mainly depends on its —
 A. Colour
 B. Viewpoint
 C. Weight
 D. Material (B)

Explanation : Different viewpoints can produce different profiles of the same solid.

7. Which solid can produce a square outline?
 A. Cube
 B. Sphere
 C. Cone
 D. Ball (A)

Explanation : A cube has square faces that can appear as a square outline.

8. In the wall-hole example, the shape of the hole represents the —
 A. Weight of the solid
 B. Colour of the solid
 C. Outline of the solid
 D. Volume of the solid (C)

Explanation : The hole formed shows the outer boundary or outline of the solid.

9. Which of the following is NOT included in a profile?
 A. Outer shape
 B. Visible boundary
 C. Internal details
 D. Silhouette (C)

Explanation : A profile shows only the external visible shape, not internal details.

10. A cylinder viewed from the side usually appears as —
 A. Circle
 B. Rectangle
 C. Triangle
 D. Point (B)

Explanation : The side view of a cylinder forms a rectangular outline.