

CHAPTER-4 | Exploring Some Geometric Themes

QUIZ PART-07

1. A solid with a rectangular profile from one view and a circular profile from another view is a —

A. Cube
B. Cylinder
C. Cone
D. Sphere (B)

Explanation : A cylinder appears circular from the top and rectangular from the front.

2. Which solid has a circular profile from one viewpoint and a triangular profile from another viewpoint?

A. Cube
B. Cone
C. Cylinder
D. Sphere (B)

Explanation : A cone appears circular from the base and triangular from the front.

3. A triangular prism can show which pair of profiles?

A. Circle and Square
B. Rectangle and Triangle
C. Pentagon and Circle
D. Triangle and Circle (B)

Explanation : A triangular prism appears triangular from one view and rectangular from another.

4. A frustum can show a trapezium-shaped profile from the _____ view.

A. Front
B. Top
C. Bottom
D. Rear (A)

Explanation : The front view of a frustum appears as a trapezium.

5. A frustum can show a circular profile from the _____ view.

A. Front
B. Side
C. Bottom
D. Corner (C)

Explanation : Looking at the circular base gives a circular profile.

6. A pentagonal prism viewed from the side appears as a —

A. Circle
B. Pentagon
C. Rectangle
D. Triangle (B)

Explanation : The pentagonal face is visible from the side view.

7. If a pentagonal prism is standing on its base, its front view will be a —

A. Pentagon
B. Rectangle
C. Circle
D. Line (B)

Explanation : The front view shows the rectangular lateral face.

8. Different profiles of the same solid are obtained because of different —

A. Colours
B. Materials
C. Viewpoints
D. Sizes (C)

Explanation : Changing the viewpoint changes the visible outline of a solid.

9. Which solid is most suitable for producing both circular and rectangular profiles?

A. Cone
B. Cylinder
C. Cube
D. Prism (B)

Explanation : A cylinder shows a circle from the top and a rectangle from the side/front.

10. The profile view of a trapezium in the frustum example is obtained from the —

A. Top
B. Front
C. Side
D. Bottom (B)

Explanation : The frustum appears trapezium-shaped when viewed from the front.