

CHAPTER-4 | Exploring Some Geometric Themes**QUIZ
PART-08**

1. Faces of a solid are —

- A. Points where edges meet
- B. Flat surfaces forming the boundary
- C. Curved lines
- D. Interior parts of a solid (B)

Explanation : Faces are the flat surfaces that make up the outer boundary of a solid.

2. Edges of a solid are —

- A. Flat surfaces
- B. Curved surfaces
- C. Line segments where faces meet
- D. Interior lines (C)

Explanation: Edges are line segments formed by the intersection of two faces.

3. Vertices of a solid are —

- A. Flat surfaces
- B. Points where edges meet
- C. Curved boundaries
- D. Faces of a prism (B)

Explanation: A vertex is the point where two or more edges meet.

4. Which solid has two congruent polygonal faces connected by edges?

- A. Pyramid
- B. Sphere
- C. Prism
- D. Cone (C)

Explanation: A prism has two identical and parallel polygonal bases.

5. A triangular prism has _____ congruent triangular faces.

- A. One
- B. Two
- C. Three
- D. Four (B)

Explanation : The two opposite bases of a triangular prism are congruent triangles.

6. A pyramid has a polygonal base and a —

- A. Circular top
- B. Curved surface
- C. Point outside the base
- D. Rectangular face (C)

Explanation : All vertices of the base are connected to a single point called the apex.

7. Which of the following is NOT a prism?

- A. Triangular Prism
- B. Pentagonal Prism
- C. Hexagonal Prism
- D. Triangular Pyramid (D)

Explanation : A triangular pyramid is a pyramid, not a prism.

8. A prism with a pentagonal base is called a —

- A. Pentagonal Pyramid
- B. Pentagonal Prism
- C. Hexagonal Prism
- D. Triangular Prism (B)

Explanation : Prisms are named according to the shape of their bases.

9. A pyramid with a hexagonal base is called a —

- A. Hexagonal Prism
- B. Triangular Pyramid
- C. Hexagonal Pyramid
- D. Pentagonal Pyramid (C)

Explanation : Pyramids are named according to the shape of their base polygon.

10. Which solid has a circular base and one curved surface meeting at an apex?

- A. Cylinder
- B. Cone
- C. Cuboid
- D. Prism (B)

Explanation : A cone has one circular base and a pointed apex.