

Assertion and Reason – 3D Shapes

Directions: Choose the correct option:

- a) Both Assertion (A) and Reason (R) are true, and R is the correct explanation of A.
- b) Both Assertion (A) and Reason (R) are true, but R is NOT the correct explanation of A.
- c) Assertion (A) is true, but Reason (R) is false.
- d) Assertion (A) is false, but Reason (R) is true.

1.

Assertion (A): A cube has 6 square faces.

Reason (R): All the faces of a cube are equal squares.

2.

Assertion (A): A cylinder has 8 vertices.

Reason (R): A cylinder has two circular faces and one curved surface.

3.

Assertion (A): A sphere can roll easily.

Reason (R): A sphere has only one curved surface and no edges.

4.

Assertion (A): A cone has one vertex.

Reason (R): A cone has a pointed top.

5.

Assertion (A): A cuboid has all its faces as squares.

Reason (R): A cuboid usually has rectangular faces.