	Drawing 3D objects
A. Choose the correct	answer:
1. A 3D object is drav	vn using
a) only height	b) flat shapes
c) perspective and	depth d) dotted lines only
2. Which tool is most	t helpful while drawing a 3D cube on paper?
a) Compass	b) Divider
c) Protractor	d) Ruler and pencil
3. The dotted lines in	a 3D drawing usually represent
a) visible edges	b) hidden edges
c) outer surface	d) curved lines
4. Which of the follo squares connected	owing shapes is correctly drawn as a 3D object using two I by lines?
a) Cylinder	b) Cone
c) Cube	d) Sphere
5. A cuboid has	
a) 4 rectangular fa	ces b) 6 curved faces
c) 6 rectangular fac	ces d) 8 square faces
B. Write the Missing T	erms to Complete the Sentences:
1. A obje	ect has length, breadth, and height.
2. A 3D drawing show	vs depth using and shading.
3. A cube is drawn by	connecting two with straight lines.
4. The hidden edges	n a 3D drawing are usually shown using lines.
5. A 3D cylinder is dra	awn using two and two curved sides.
C. Mark each sentence	e with a True ( 🖌 ) or False (X):

- 1. All 3D drawings must show all edges as solid lines.
- 2. A cube and a cuboid are drawn using the same base structure.

- 3. Dotted lines represent edges that are not directly visible.
- 4. It is impossible to draw a 3D object on a flat surface.
- 5. 3D drawings help visualize the shape more realistically than flat shapes.

## **D.** Figure out the answers to these questions:

- 1. Draw a 3D cube using two squares and connecting lines. Label visible and hidden edges.
- 2. Explain how a cuboid is drawn differently from a cube in a 3D sketch.
- 3. Identify and describe the parts of a cone in its 3D drawing.
- 4. What are the key differences between drawing 2D and 3D shapes? Use examples.
- 5. Draw a cylinder using two ellipses and explain how it represents depth.

## E. Challenge yourself with these questions:

- 1. Draw a 3D cuboid and label all faces, edges, and vertices.
- 2. Practice sketching a cone using its base and slanted side.
- 3. Create a step-by-step guide for drawing a cube on paper.
- 4. Observe any box at home and try drawing its 3D view.
- 5. Imagine a water bottle. Try drawing its 3D view and label the curved and flat surfaces.

## F. Using the fact— "Opposite sides of a die always add upto 7", find which of the following is/are the net of a die?



G. Which of the following is 'not' the net of a square pyramid?

