Visualising solid objects

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A. Choose the correct a	nswer:		
1. A solid object is			
a) flat and drawn or	paper	b) has only length and width	
c) has length, width	, and height	d) made using circles only	
2. Which of the follow	ing is a solid	shape?	
a) Triangle		b) Rectangle	
c) Cube		d) Line	
3. The 3D object form	ed by stackin	g several circles on top of one a	another is
a) sphere		b) cylinder	
c) cone		d) cube	
4. Which figure has or	ly one curve	d surface and one vertex?	
a) Cube		b) Sphere	
c) Cone		d) Cylinder	
5. Which of the follow	ing is a corre	ct pair of solid and flat surface	?
a) Cube and circle		b) Cone and rectangle	
c) Cuboid and squar	e	d) Sphere and triangle	
B. Write the Missing Te	rms to Com	plete the Sentences:	
1. A solid object has	di	mensions.	
2. A cuboid has	faces, _	edges, and	vertice
3. The surface of a sph	ere is	and	
4. The top view of a cu	be shows a _		
5. A cone has one circu	ular face and	one face.	
C. Mark each sentence	with a True	(✔) or False (X):	
1. A solid object canno	t be represer	nted on a flat surface.	
2. A cube has more ve	rtices than a d	cone	
3. A sphere has no edg	es or vertice	5	

- 4. All solids have both flat and curved surfaces.
- 5. A cone has only one face.

D. Figure out the answers to these questions:

- 1. Draw the front, top, and side views of a cube.
- 2. Describe the solid shape formed by joining six identical square faces.
- 3. If you rotate a rectangle around one of its sides, which solid is formed?
- 4. Write the differences between a cylinder and a cone based on surfaces and edges.
- 5. Explain with a sketch how a solid object like a cuboid can be represented on paper.

E. Challenge yourself with these questions:

- 1. Sketch a solid object that has flat surfaces only and name it.
- 2. Identify 3D shapes from your surroundings and mention their names and features.
- 3. Using clay or cardboard, model a cylinder and label its faces.
- 4. Compare a cube and a cuboid using number of edges, faces, and vertices.
- 5. Draw and label a real-life object (like a dice or a can) and explain its 3D properties.

F. Complete the following figures using the dot grid given below.

