Introduction to 2D and 3D Figures

A. Choose the correct answer:

	1. A figure that has only lengt	re that has only length and breadth is called	
	a) 3D figure	b) point	
	c) 2D figure	d) volume	
	2. Which of the following is a	3D figure?	
	a) Circle	b) Square	
	c) Cube	d) Triangle	
	3. A 2D shape has		
	a) only one face	b) faces and vertices	
	c) length and height	d) length and breadth only	
	4. A cube has how many faces?		
	a) 4	b) 6	
	c) 8	d) 12	
	5. Which of the following shapes does not have edges?		
	a) Cube	b) Cone	
	c) Sphere	d) Cylinder	
В.	 Write the Missing Terms to Complete the Sentences: 1. A figure with only two dimensions is called a shape. 2. A cube is an example of a dimensional figure. 		
	3. A cone has fac	e, edge, and vertex.	
	4. A circle has no or		
	5. 3D shapes have	_,, and	
C .	Mark each sentence with a True (✔) or False (X):		
	1. A square is a 3D shape.		
	2. All 3D figures have at least one curved surface.		

- 3. A sphere has no edges or vertices.
- 4. A triangle has three vertices and three edges.
- 5. A cube has 6 faces and 8 vertices.

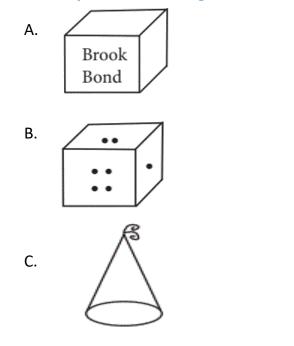
D. Figure out the answers to these questions:

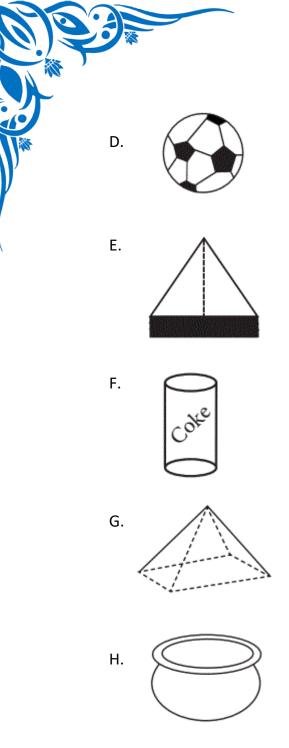
- 1. Write any three differences between 2D and 3D figures.
- 2. Identify which of the following are 2D or 3D: rectangle, cylinder, triangle, sphere, cuboid.
- 3. Name the number of faces, edges, and vertices in a cuboid.
- 4. Explain with examples how a 3D shape casts a 2D shadow.
- 5. List any five 3D objects seen in your daily life and name their geometric shapes.

E. Challenge yourself with these questions:

- 1. Draw a cube and label its faces, edges, and vertices.
- 2. Sort the following into 2D and 3D shapes: cone, hexagon, pentagon, pyramid, oval.
- 3. A football is an example of which type of figure? Write its properties.
- 4. Match the following 3D shapes with their flat faces: cube, cone, cylinder.
- 5. Observe your surroundings and list five things that are 3D objects and name their geometric form.

F. Identify and write the geometrical name of the following:





G. Is the given figure, a cuboid?

- A. Name the edges which meet at vertex A.
- B. Name the edges of the face C'D' DC.
- C. Name the faces which meet at the edge A'D'.
- D. Name the front face of the cuboid.
- E. A'B'C'D' is the base, then name the lateral faces.

