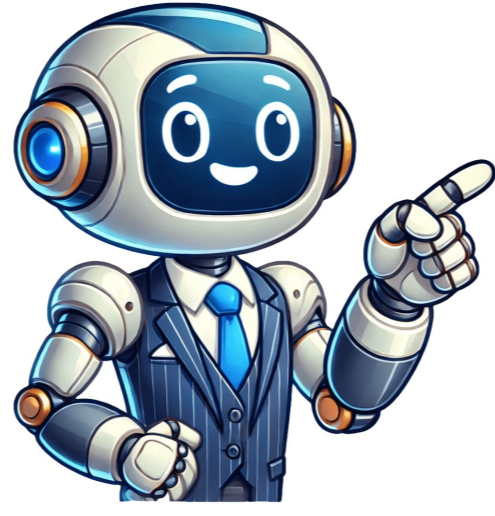


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two-dimensional shape. This pattern that we get is called a net. For example, the net of a cylinder is shown below. We can clearly see that there are two 2-D shapes in it. One is a circle and the other one is a rectangle. Drawing 3-D Shapes on a Paper or a Flat Surface We can represent a 3-D shape in a 2-D flat surface like a paper. This can be done in two ways. Oblique Sketching: To do an oblique sketch of a solid shape: Draw the front view shape and the opposite shape of the object. Connect the corners. Draw a dotted line in the hidden edges. The following figure shows how a 3-D shape can be drawn with oblique sketching. Isometric Sketching: Isometric sketches are drawn on isometric dotted paper with definite measurements. The figure given below shows the isometric sketch of a cuboid in an isometric dotted paper. Topics Related to Visualizing Solid Shapes Check out some interesting topics related to visualizing solid shapes. Shapes 3-D Shapes Closed Shapes Plane Shapes Solid Shapes Important Topics Solid shapes are 3-D shapes that have a length, width and a height (depth). Cubes, cones, spheres, cuboids are some examples of solid shapes. What is a Face, Vertex and Edge? The flat surface of a solid shape is called a face. The line segment joining two faces of a solid shape is called an edge. The point or corners where edges meet is called a vertex. Does a 2-D shape have faces, vertices and edges? No, 2-D shapes have only vertices. For example, a triangle has 3 vertices and a square has 4 vertices. What Are the Different Views of Solid Shapes? There are different views of solid shapes: Top View: The top view of a solid shape is the shape of an object when we see it from the top. Side View: The side view of a solid shape is the shape of an object when it is seen from one of its sides. Front View: The front view of an object is the shape of an object when it is seen from the front side of the object. How Can Solid Shapes be Visualized? Solid shapes can be visualized in the following ways: By cutting or slicing them horizontally or vertically. By passing light on a solid shape. By imagining the smallest unit of which a solid shape is made. Can Solid Shapes be Drawn on Flat Surfaces? Yes, solid shapes can be drawn on flat surfaces by using the oblique sketching technique or the isometric sketching technique.

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