Types of 3D Drawings
4 Types of Drawings

• 1. Orthographic Drawings
  • Shows the top, sides, and bottom of an object
  • Also called multi-view drawings
  • Should be drawn to scale
4 Types of Drawings

- 2. Isometric Drawings

- Isometric is from greek meaning “equal measure”

- Depth is shown by slanting the edges up at a 30 degree angle from the horizontal

- Especially useful to engineers because it shows depth, and each line is drawn to scale
4 Types of Drawings

• 3. Oblique Drawings

  • Show the front, top, and one side of an object.

  • Front drawn as front view and horizontal edges drawn at a 45 degree angle to give the impression of depth.

  • Not drawn to scale, therefore not as useful to engineers
4 Types of Drawings

• 4. Perspective Drawings
  
  • Show objects as they would appear to the naked eye, or as they would appear in a photograph.
  
  • Lines showing depth converge toward an imaginary vanishing point, creating the appearance of distance.
Orthographic Drawing

• Typically, you only need the front, top, and side view in an orthographic drawing

• These views are two dimensional and do not show any depth...pay attention only to the faces of the object that can be seen from the side of the object you are drawing

• Let’s practice identifying views...
Orthographic Drawing Practice

- Practice identifying the views of the following objects by shading the corresponding sides with matching colors or patterns:
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