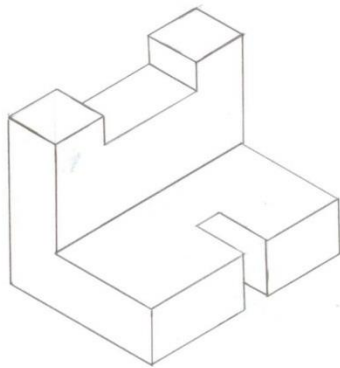




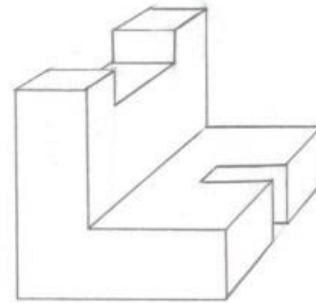
Language of Sketching

Pictorial Drawing

- 2D illustration of a 3D object
- Shows three faces of an object in one view
- Provides a realistic view of an object
- Types of drawings



Isometric

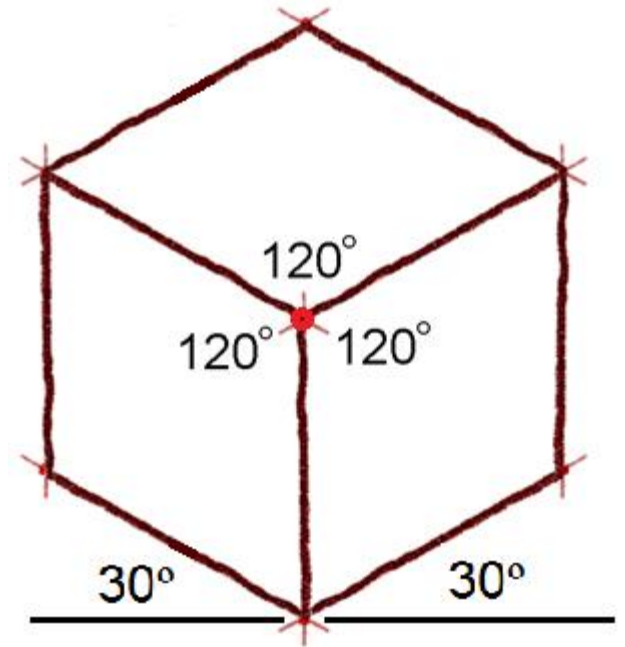


Perspective

Isometric Pictorial

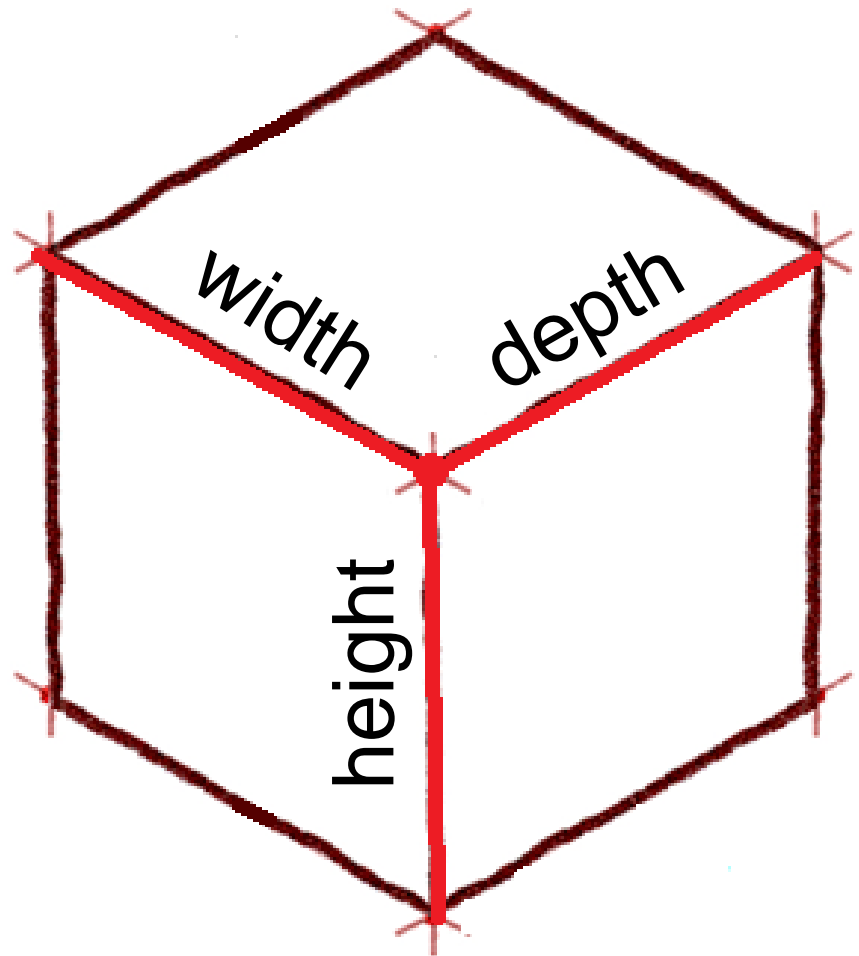
Isometric means *equal measure*.

- Three adjacent faces on a cube will share a single point
- Edges converge at one point will appear as 120 degree angles or 30 degrees from the horizon line

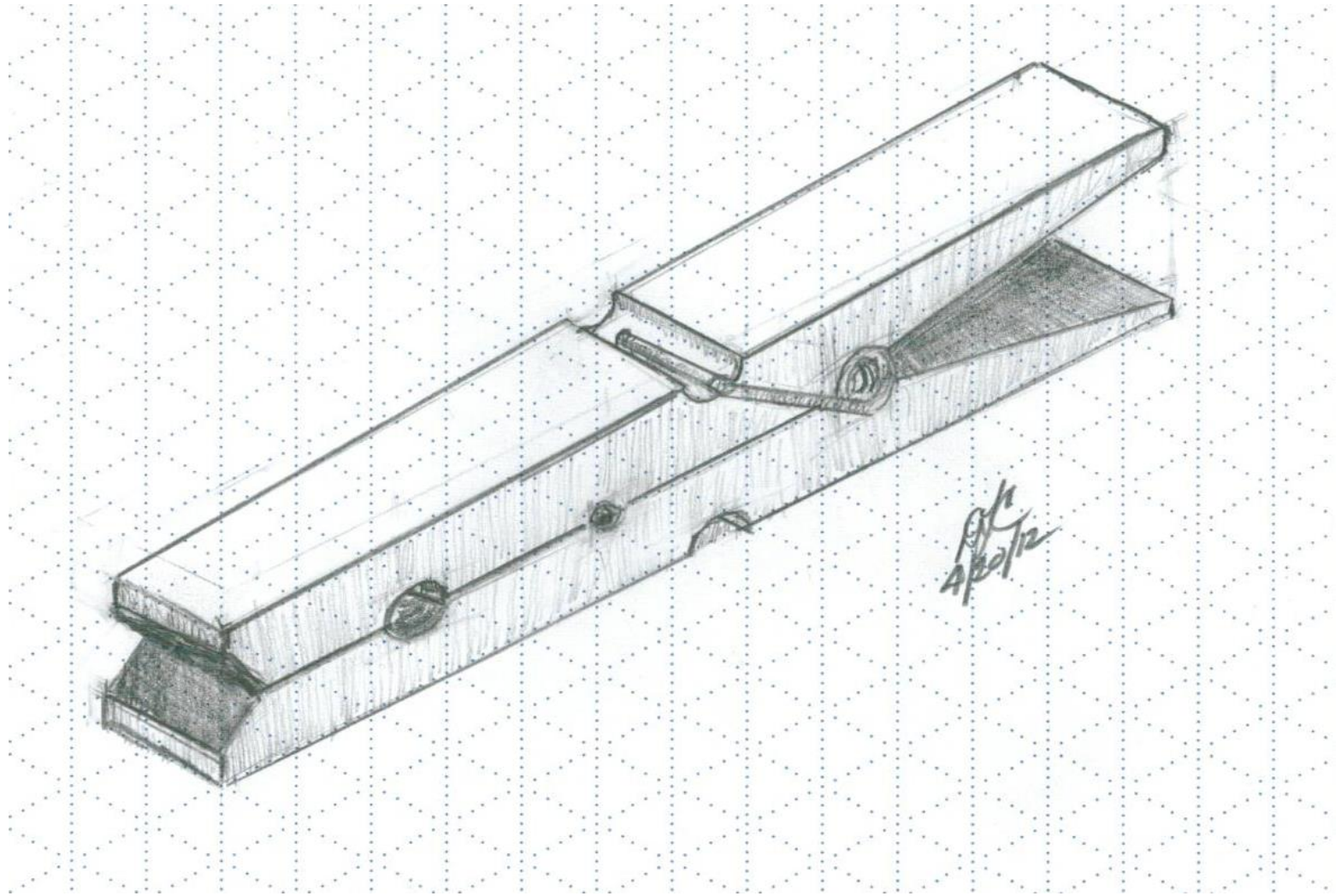


Isometric Pictorial

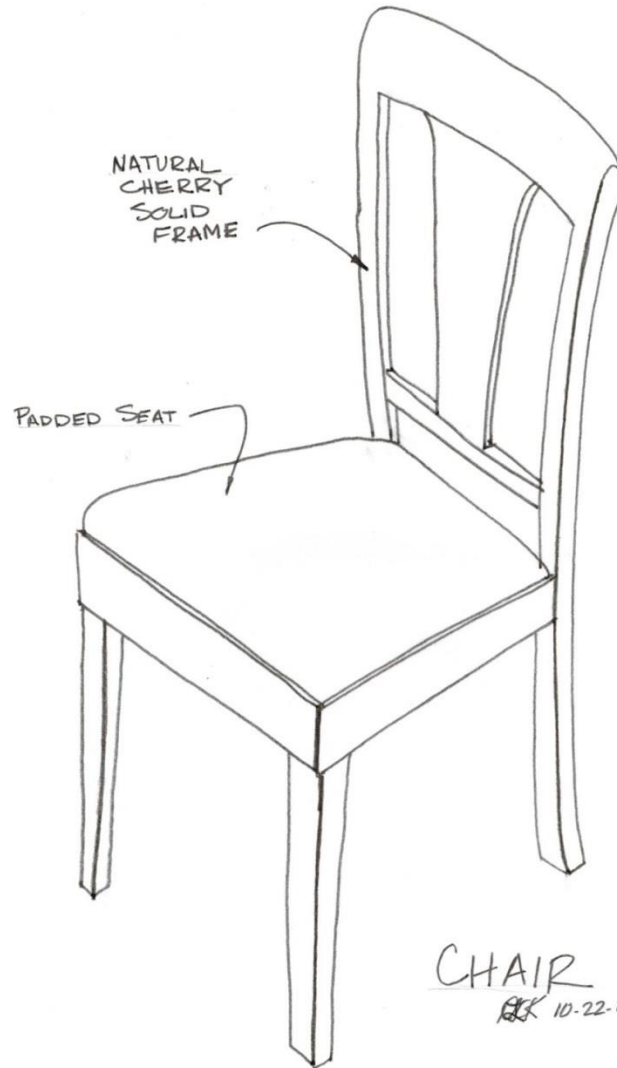
- These three edges represent height, width, and depth



Isometric Sketch Example

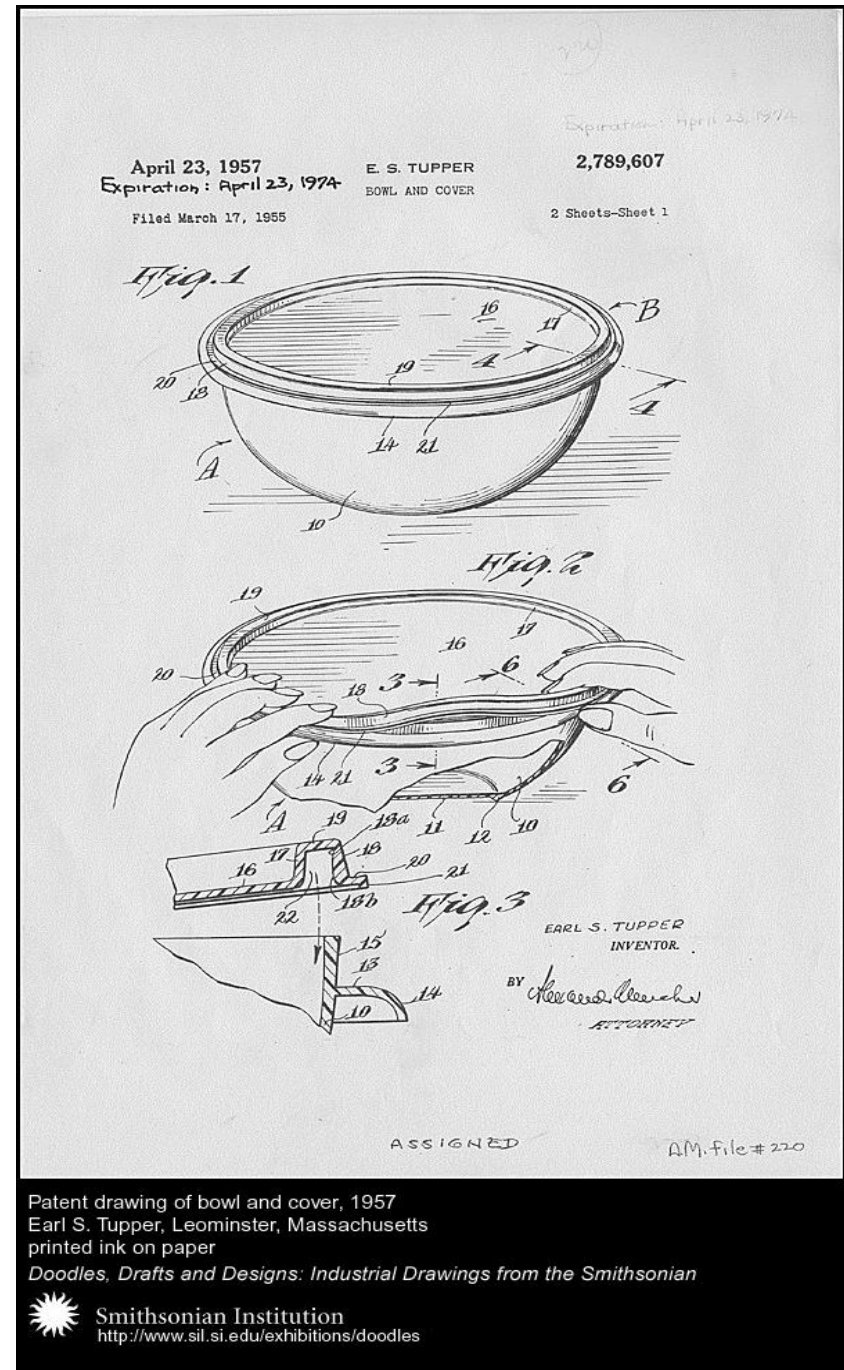


Isometric Sketch Example



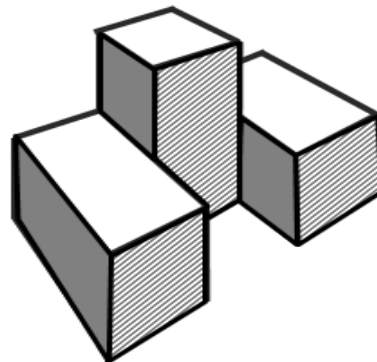
Isometric Sketch Historical Example

- Earl Silas Tupper (1907 -1983) invented an air-tight Tupper Seal in 1947
- Patent drawings of bowl and cover, 1957 (isometric pictorial)

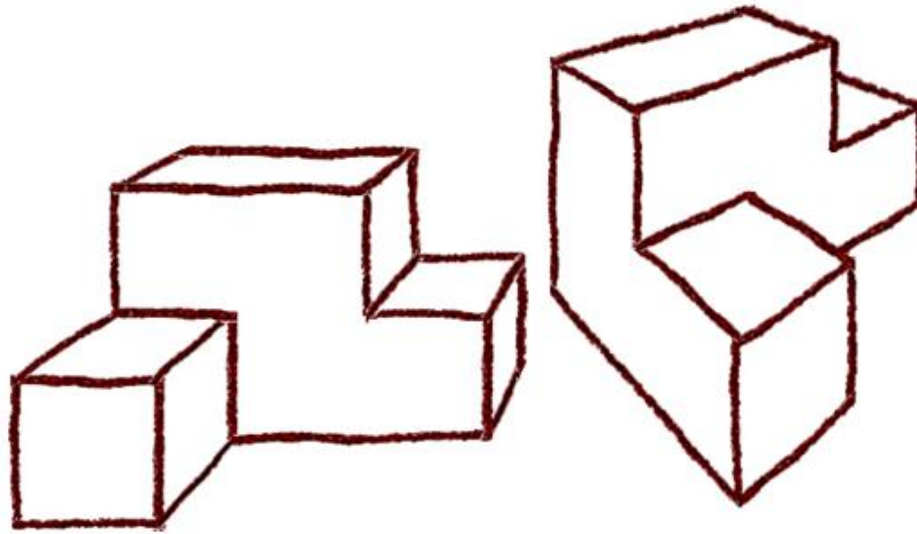


Perspective Drawings

A perspective drawing offers the most realistic three-dimensional view of all the pictorial methods, because it portrays the object in a manner that is most similar to how the human eye perceives the visual world.



Perspective Drawings



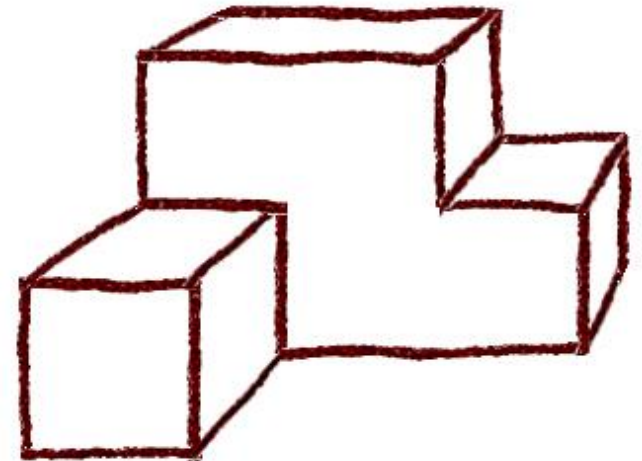
1-Point

2-Point

One-Point Perspective

The ***one-point*** perspective is relatively simple to make, but is somewhat awkward in appearance when compared to other types of pictorials.

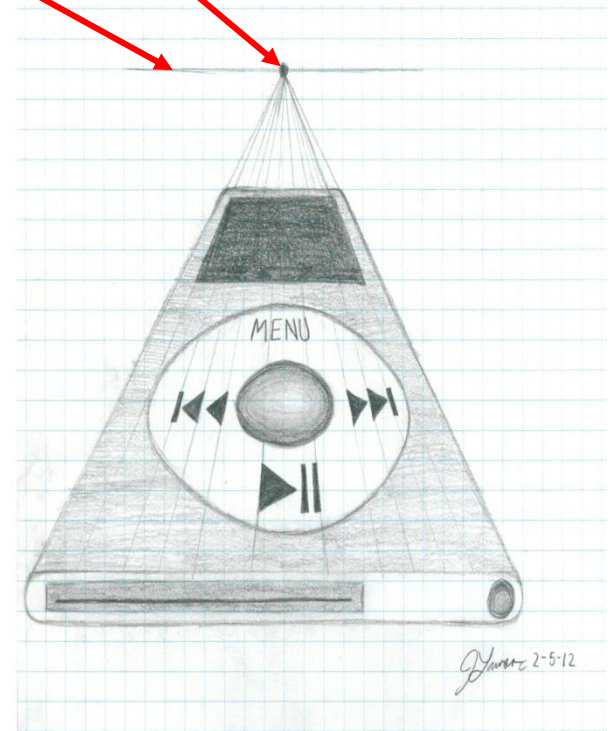
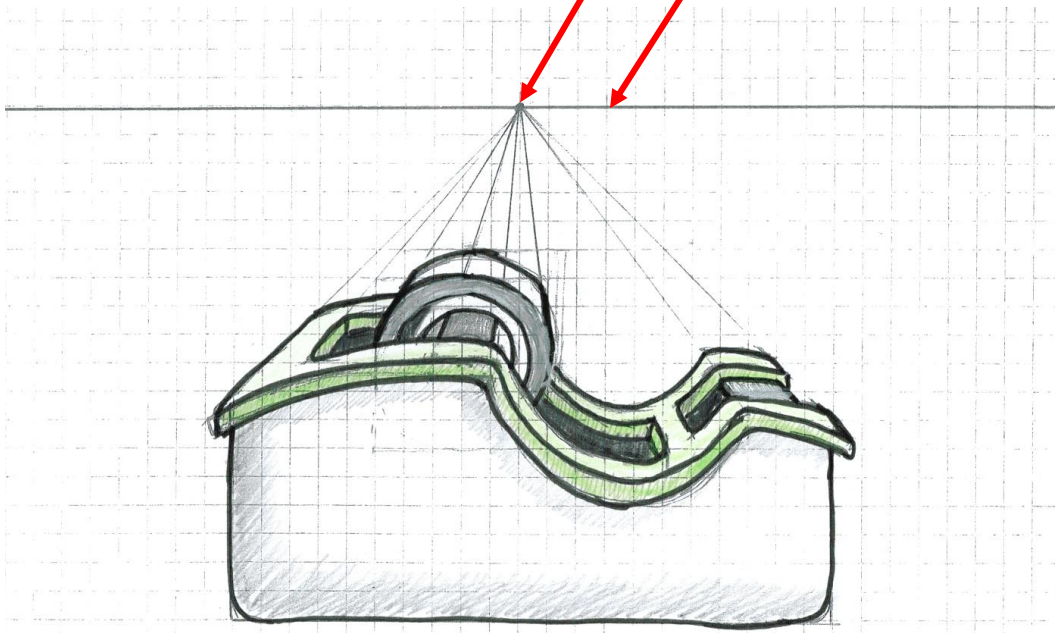
- A horizontal line represents the horizon.
- **One** vanishing point is identified on the horizon line.
- A series of lines are drawn from distinctive points on the object to the vanishing point, outlining the object being constructed.



One-Point Perspective Example

Vanishing Point

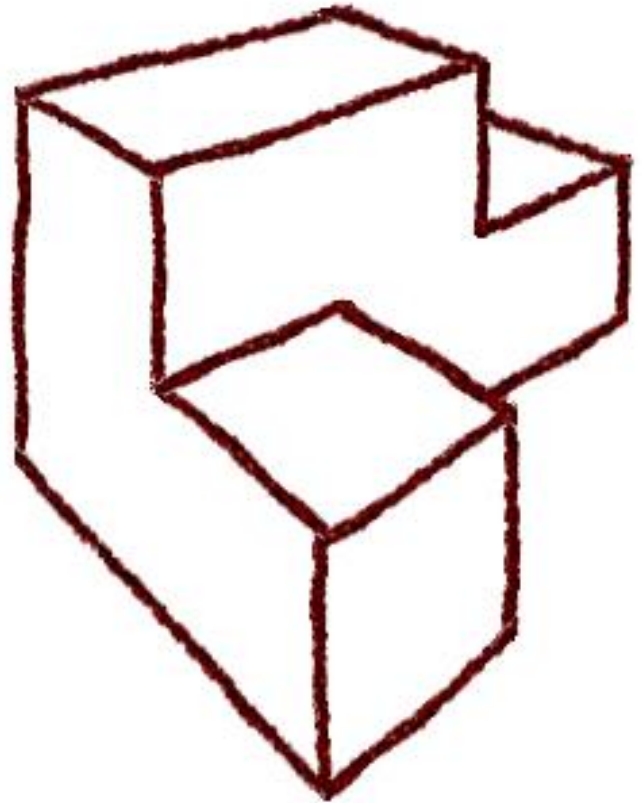
Horizon Line



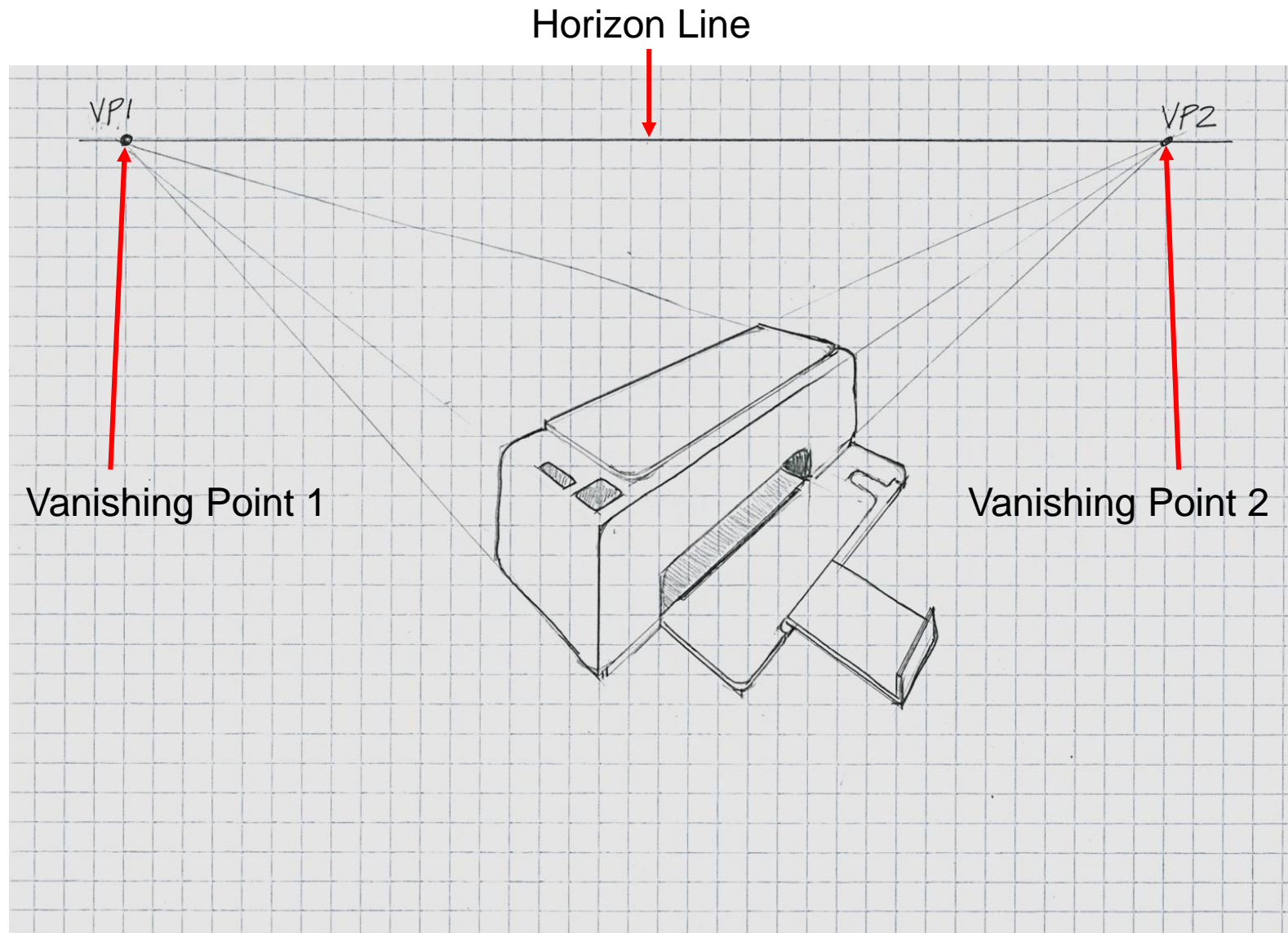
Two-Point Perspective

The *two-point* perspective is the most common perspective drawing.

- A step-by-step procedure will be explained for the perspective.



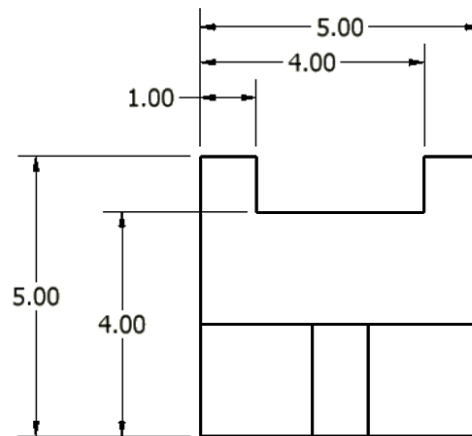
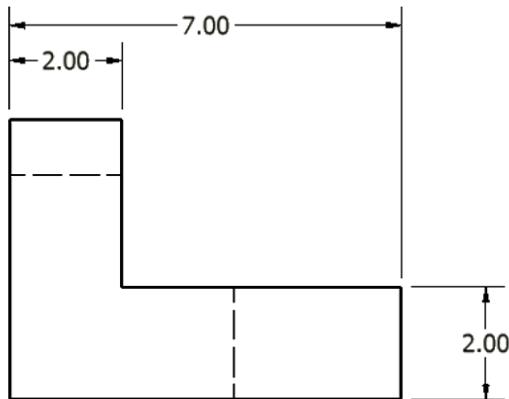
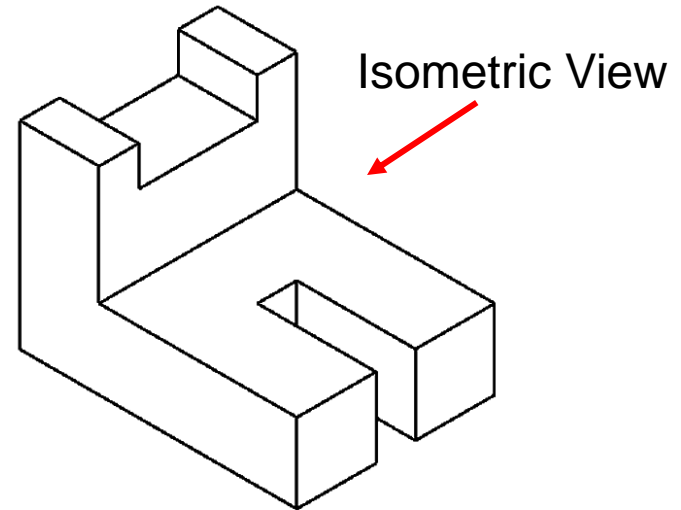
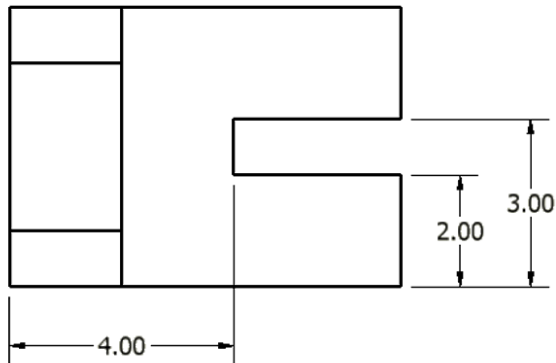
Two-Point Perspective Example



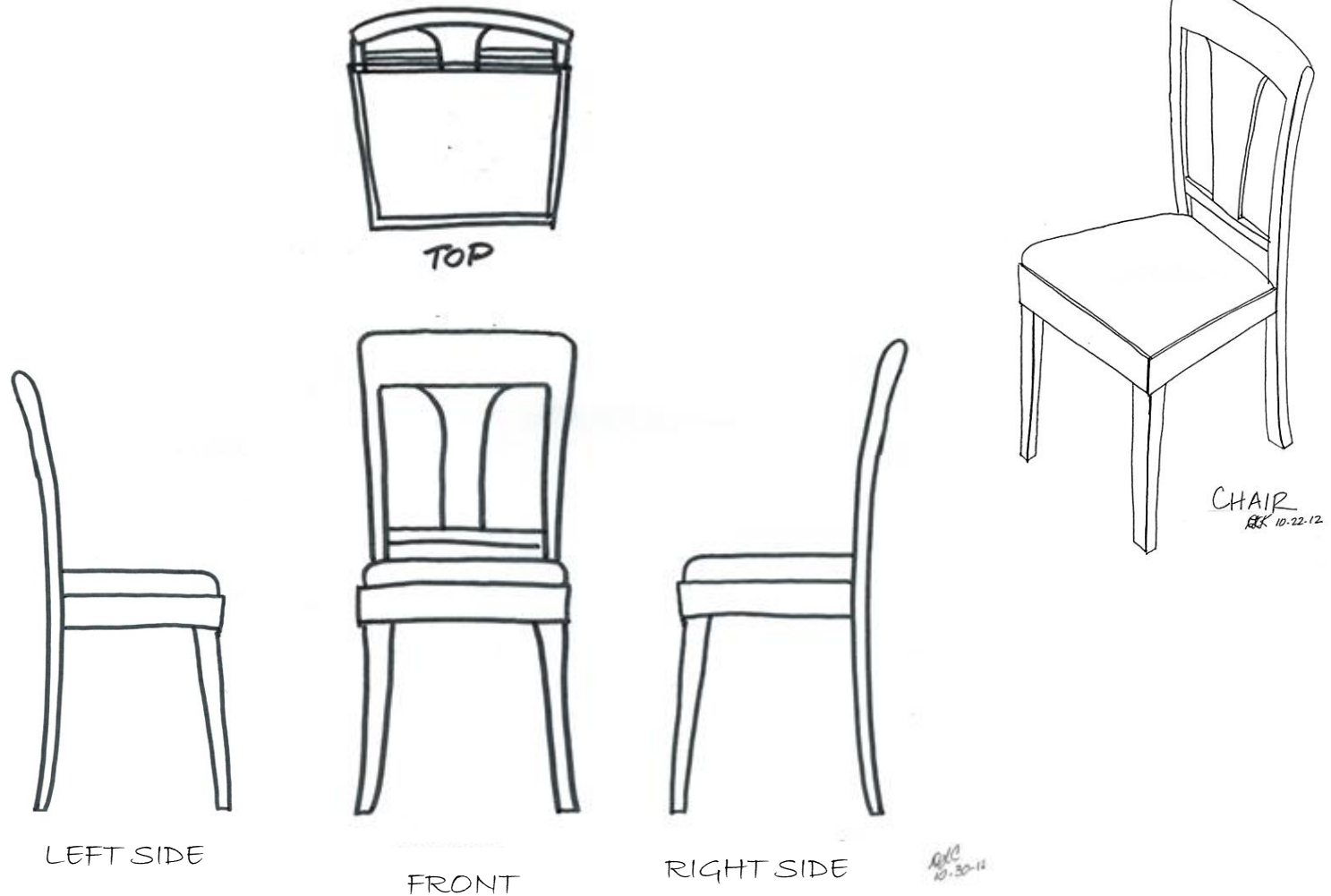
Multi-view (Orthographic) Drawing

- Shows two or more two-dimensional views of a three-dimensional object.
- Provides the shape description of an object.
- When combined with dimensions, serves as the main form of communication between designers and manufacturers.

Multi-view Drawing



Example of Multi-view Sketch



Dining Chair

References

Tupper, Earl Silas. Patent drawings, 1957. Smithsonian Institute: <http://sil.si.edu.exhibitions/doodles>