Technical Graphics:

Multi-view drawing
Standard Practice
Conventional Practice
Pictorial to Multi-view

- Visualize
- Projection
Standard Orthographic Views

- Elevation Views
  - Front / Back
  - Right / Left

- Plan Views
  - Top / Bottom
Multi-view sketching: Step 1

- Plan
  - Light construction
  - “Obvious” Detail
- Step 2: Outline “obvious”
Multi-view sketching: Steps 2

- Outline
  - “Other” details
- Develop Drawing
Multi-view sketching: Step 3

- Complete
  - Linetypes
  - Erase (minimum)
Front View

- Orientation
  - Right View (Not Left)
  - Top View (Not Bottom)
  - Important Detail
    - Minimize Hidden Lines
  - Object’s Orientation
Select the “best” Front View
How Many Views?

- Single View
  - Note thickness

Figure 9.12

THICKNESS = 2.5 mm
How Many Views?

- Two View
  - Axial Symmetry
How Many Views?

- Three Views
  - Visualization
- Or More
  - Details
Select the best / necessary views
Circular Features

Holes

Cylinders
Circular Features / Center Lines
Example: Center / Hidden Lines

Note: Centerline options
Example: Center / Hidden Lines
Find missing center mark / line

8/24/2010 - jcs
Multiview Drawing
Line Precedence / Priority

- Object Lines (Highest)
- Hidden Lines
- Center Lines (Lowest)
1. Draw Front, Top, and Left Views.

2. Draw Front, Top, and Right Views.
Gr 1.6a: Solution


5. Draw Front, Top, and Left Views.
1. Given the front and isometric views, sketch the top and right views using standard placement and alignment.

3. Draw front and top views.
Gr 1.6b: Solution

1. Given the front and isometric views, sketch the top and right views using standard placement and alignment.

3. Draw front and top views.