# ME-160
# Mechanical Engineering Drawing

# Isometric Views(with Holes)

**Prepared By:**
Musanna Galib
Md. Rakib Hossain

**Course Teachers:**
Musanna Galib
Saif Al-Afsan Shamim
Abdul Aziz Shuvo

# How to draw :

- **4-Center Method (for circle):** 4-Centre method is used to draw an ellipse in isometric for a circle.
- **Step 1:** Construct the rhombus in isometric using circle diameter as sides.
- **Step 2:** Draw arcs using 4-centres *m,n,1 and 3 with radius* shown fig.



- **Step 3:** For isometric projection, isometric scale is used to draw the rhombus.
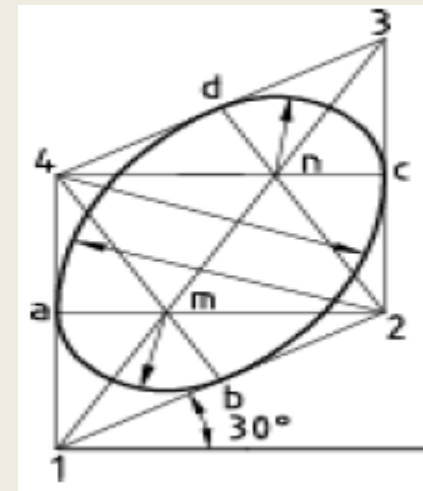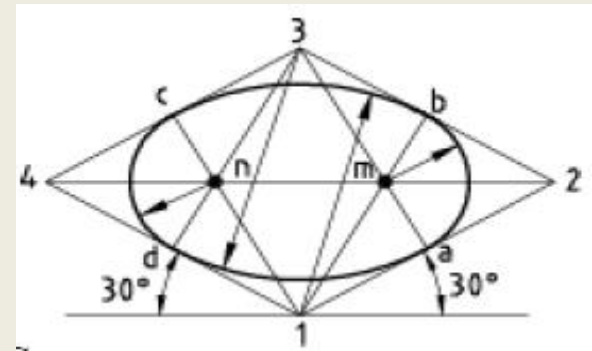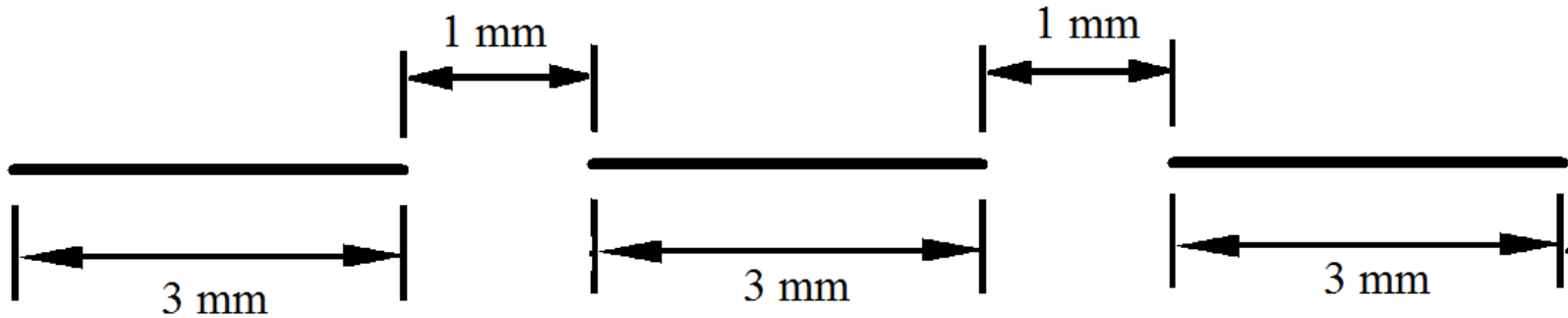
# Lines

- Object Line : 100% thick
- Hidden Line: 50% thick
- Dimension, Extension Line: 25% thick
- Center Line : 50% thick
- Cutting Plane Line : 125% thick
- Hatchet line :25% thick

**Object Line**

Thickness:     100 %

**Hidden Line**

Thickness:     50 %

1 mm          1 mm

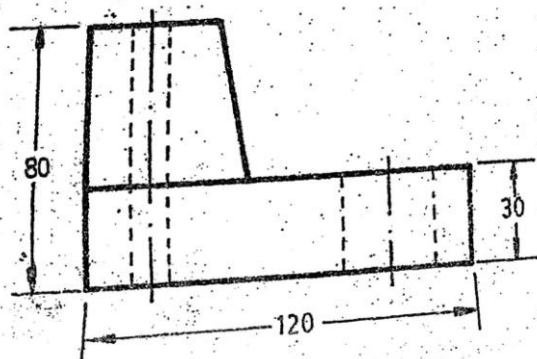3 mm          3 mm          3 mm

Center Line

Thickness:     50 %

Dimension and Extension Lines

Light
3.000

**Thickness:      25 %**

Section Line

**Thickness:      125 %**

1 mm          1 mm          1 mm

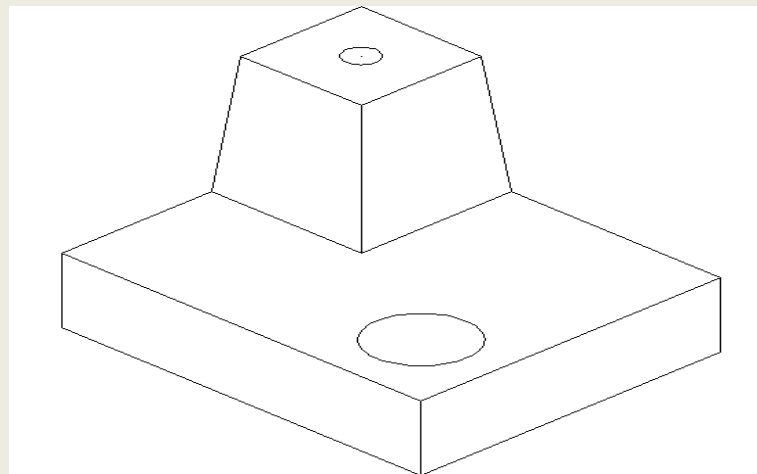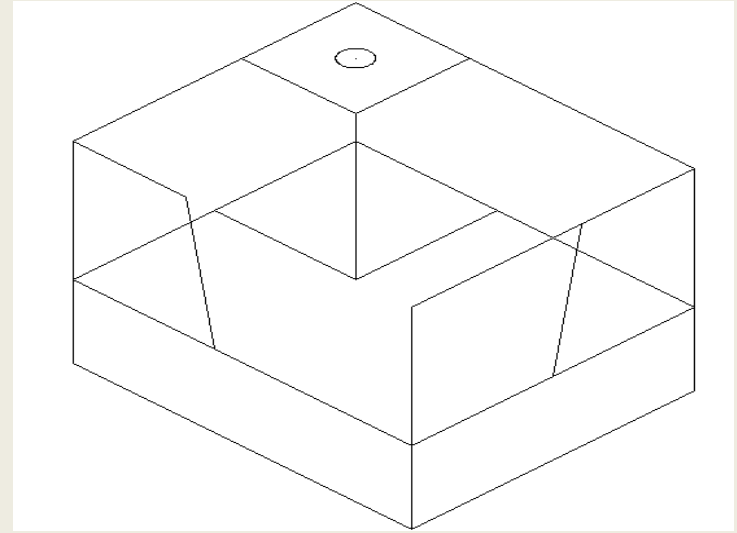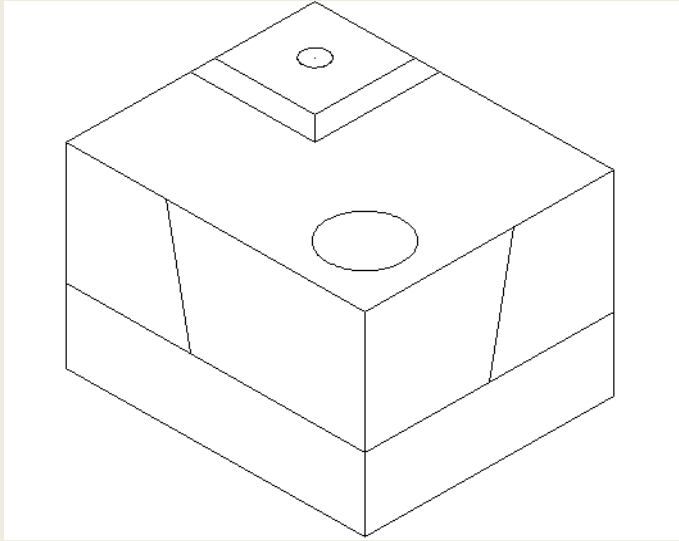19 - 38 mm                 3 mm          3 mm                 19 - 38 mm
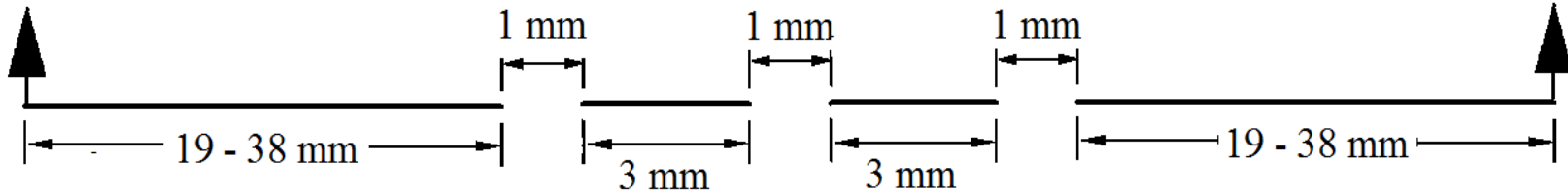
**N.B.: All Percentages are with respect to the object line**

# First Problem
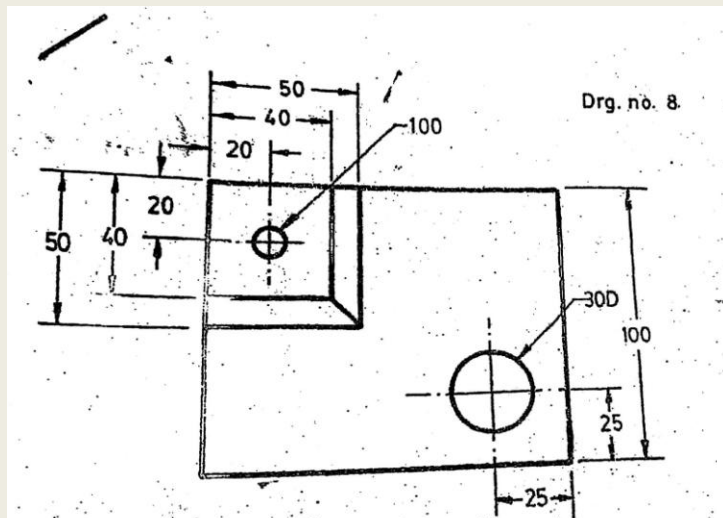
# First Problem

# Persist Until Succeed !!!