

## **Sketching Assignment #5**

### **Reading Assignment:**

Read the following chapter in Engineering Graphics Workbook, Series 2 by Craig & Craig:  
Chapter L – Dimensioning  
Chapter M - Tolerances

### **Sketching Assignment:** (staple all sheets together in the order assigned before submitting)

Complete the following worksheets:

- DIM-8A (Use decimal inch dimensions. Add a note for a general tolerance of  $\pm 0.05''$ )
- DIM-9B (Use metric dimensions. Add a note for a general tolerance of  $\pm 1$  mm)
- DIM-10C (Use fractional inch dimensions. Add a note for a general tolerance of  $\pm 1/16''$ )

### **Notes:**

- Sheet DIM-8 is on the back of sheet DIM-7, which you may have already turned in for the last assignments, so a copy of DIM-8 is available on page 2 of this document.
- In DIM-9B, use a single dimension for the two counterbored holes. Do not use any angle dimensions.
- In DIM-10C, use a single dimension for the size and location of the six arrayed holes.

DIMENSION THE PART.

- A. USE DECIMAL INCH DIMENSIONS.  
GRIDS ARE .25 IN.
- B. USE METRIC DIMENSIONS.  
GRIDS ARE 10MM.
- C. USE FRACTIONAL INCH DIMENSIONS.  
GRIDS ARE 1/4".

