

DUE DATE \_\_\_\_\_

NAME \_\_\_\_\_

## ENGR/DRAFT 105 Assignment #6, Isometric Pictorials – Continued

For each of the 3 drawings on the attached sheet, draw the following on plain 11" x 17" paper (use one sheet of paper for each of the 3 drawings – therefore, you will be turning in a total of 3 sheets of plain 11" x 17" paper, in addition to this cover sheet):

- 1) On the **Right** side of the 11"x17" paper, draw an isometric mechanical drawing of the object. **See below for detailed instructions, and wait for instructions to be given during class.**
- 2) On the **Left** side of the 11"x17" paper, draw a complete multi-view mechanical drawing (front, top, and right side). **See below for detailed instructions, and wait for instructions to be given during class.**

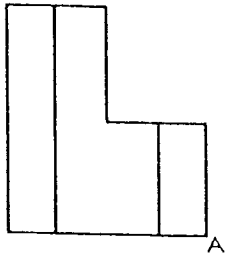
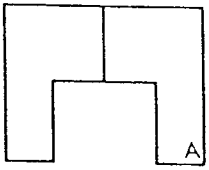
The first step is to draw the Isometric Box, on the right hand side of the 11"x17" paper, all 6 sides, double the size of the objects Width, Height, and Depth. Use isometric paper under the right side of the 11x17 sheet. Note that the corner for each isometric drawing is indicated. For all of the isometric mechanical drawings, you must use a T-square and 30 degree triangle to draw the isometric box, all 6 sides. Draw the isometric box without going beyond the edges, and use light construction lines (use the 0.3mm pencil), but visible enough to see them. You must also use isometric paper under the drawing to help you draw the isometric box (and later on, the object). After you draw the isometric box, then transfer the dimensions to draw the outline rectangles of the front, top and right side views (again use the 0.3mm pencil, but visible enough to see them).

- For the "Guide Base", the dimensions of the isometric box are  $W = 8$  boxes,  $H = 10$  boxes,  $D = 6$  boxes. This is very close to double the dimensions of the Guide Base. Note that every corner point on the object will be on a grid point on the isometric paper. This will make the object very precise, with very parallel lines.
  - For the "Trip Block", you will just double the dimensions of the object. You can start with either the isometric box, or the multiview drawings. You may want to work back and forth between the multiviews and the isometric drawings.
  - For the "Hex Shoe", and this is the only isometric pictorial in this assignment where it will be helpful to draw all hidden lines (usually hidden lines are not drawn in pictorials, since you are depicting the real object without "X-Ray vision", but the "Hex Shoe" details are much more clear if the hidden lines are drawn). The dimensions of the isometric box are  $W = 10$  boxes,  $H = 13$  boxes,  $D = 8\frac{2}{3}$  boxes (this will give the correct proportions for the hexagonal shape of the "footprint" of the object).
- **Staple this sheet to the front of your drawings in the correct order.**
  - **Write your name at the top of the page.**
  - **Write your name on each drawing.**
  - **Please staple the 11" x 17" landscape sheet(s) face up, and then fold back the right side to make the packet 8.5" x 11".**

ISOMETRIC DRAWING

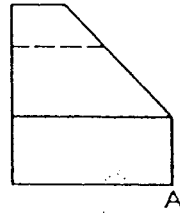
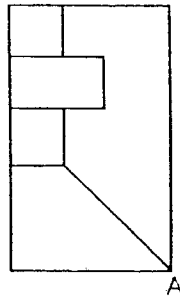
1

GUIDE BASE



2

TRIP BLOCK



3

HEX SHOE

