

DUE DATE _____

NAME _____

ENGR/DRAFT 105 Assignment #9, Dimensioning

Complete the 4 sheets on dimensioning:

- Worksheet 9.1 – Note: Use 3-place decimal inch measurements. $1/8'' = 0.125''$, etc.
- Worksheet 9.2 – Note: Use 3-place decimal inch measurements. $1/8'' = 0.125''$, etc.
- Worksheet 9.3 – Note: This object is drawn on a 5 mm grid.
- Plate 14 (only #1 -- #2 is Extra Credit, see below).

Be sure to add any hidden lines and center lines. Note that there are many suggestions for proper placement of dimension and extension lines (section 9.14, “Placement of Dimension and Extension Lines”). One of the most important suggestions is to place dimensions in the contour view, where the shapes of the objects are shown (in “profile”).

Extra Credit: Complete Plate 14, #2 (Note: use the engineers scale to determine dimensions – list the dimensions in decimal inches to the accuracy of the scale).

Extra Credit: Complete Plate 15 (Note: use the engineers scale to determine dimensions – list the dimensions in decimal inches to the accuracy of the scale).

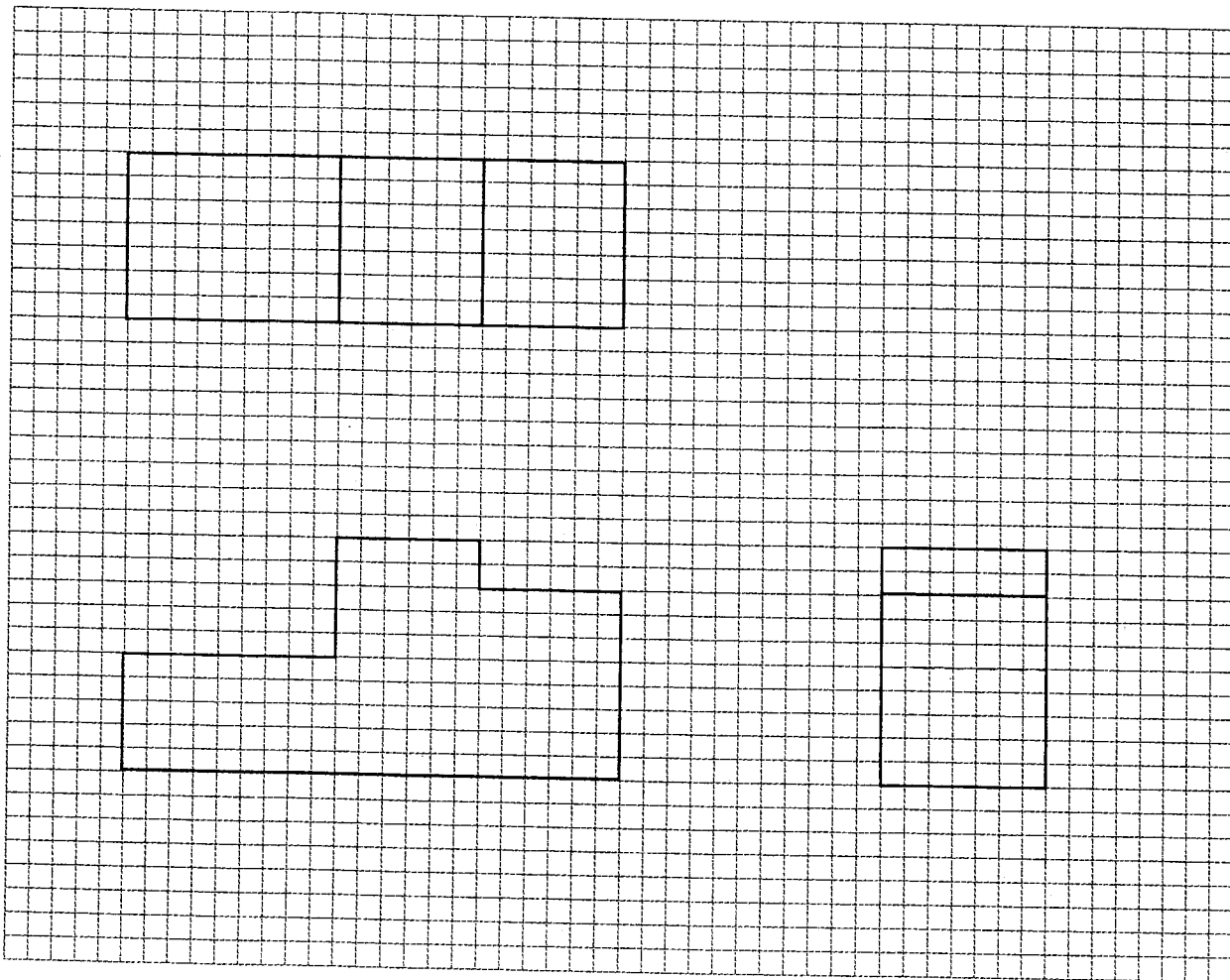
Staple this sheet to the front of your drawings in the correct order. Write your name at the top of the page. Write your name on each drawing.



Worksheet 9.1

Dimensioning

Add dimensions to the drawing views shown below using good technique, choice, and placement of dimension. Use the grid to help size the dimension features. Determine the dimension values by measuring the views or from the $1/8"$ grid spacing. The drawing is full scale. Use 2 place decimal inch measurements.



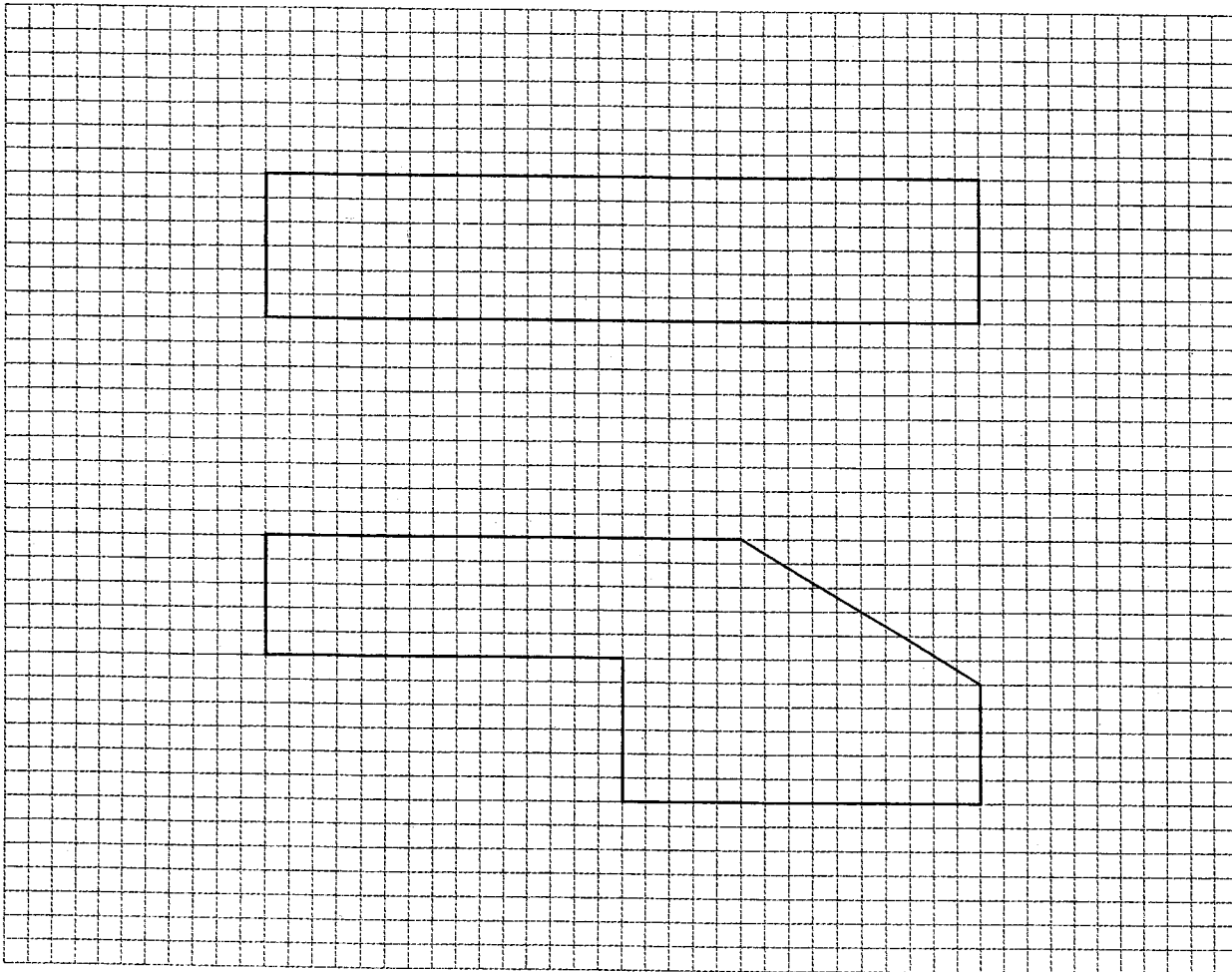
Make copies of these pages to use for additional practice.



Worksheet 9.2

Dimensioning

Some lines are missing. Add the missing lines, then measure the object and dimension using ~~two~~ ^{three} place decimal inches. It is shown full size.



Make copies of these pages to use for additional practice.

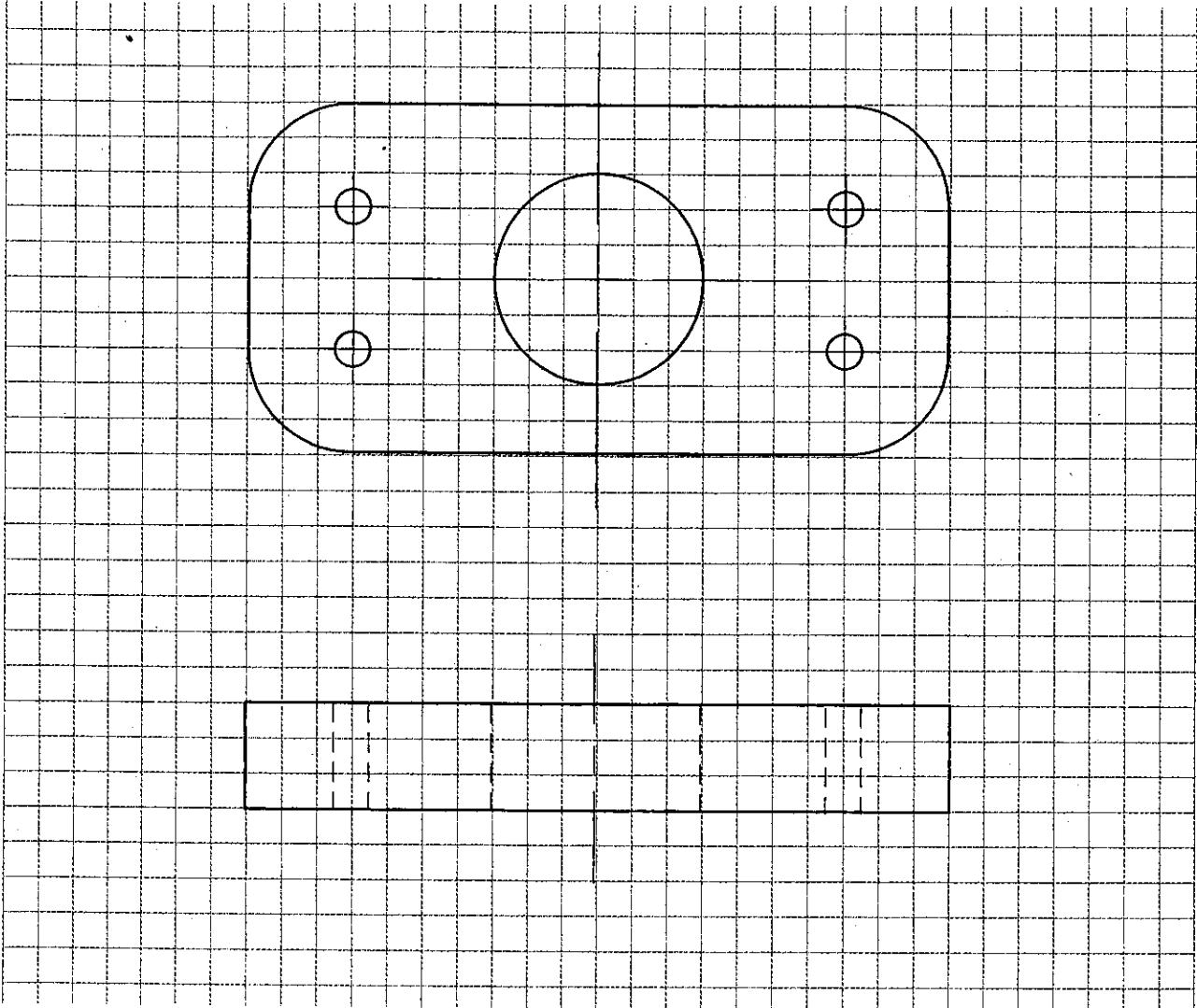


Worksheet 9.3

Dimensioning

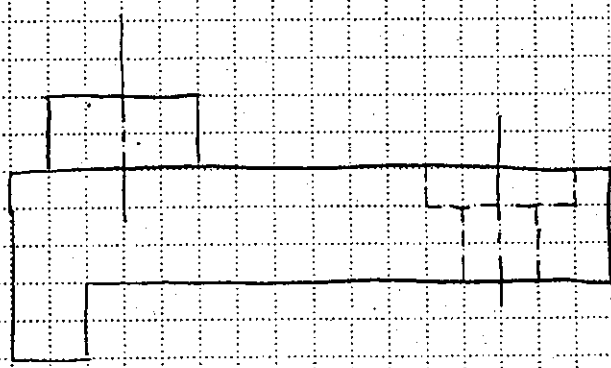
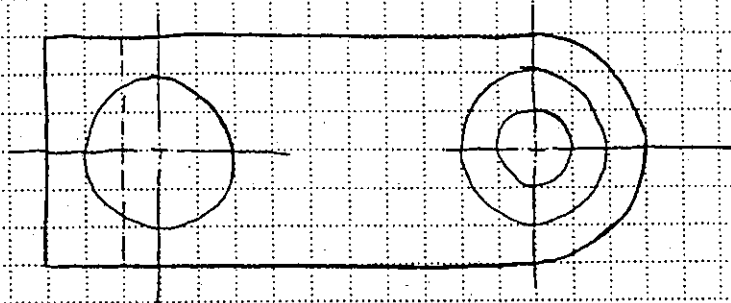
Measure the object in millimeters and dimension to the nearest whole millimeter. It is shown on a 5 mm grid.

5mm grid

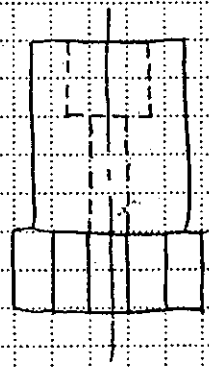
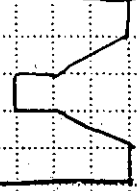
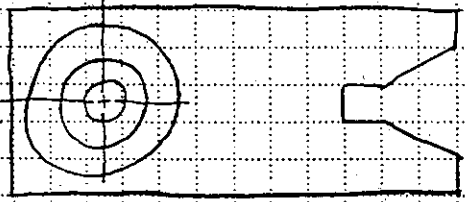


Make copies of these pages to use for additional practice.

1 DIMENSION - UNIDIRECTIONAL, CONTINUED.
ADD MISSING VIEW, The grid is 5mm.



2 → Extra Credit
DIMENSION - UNIDIRECTIONAL, CONTINUED.
ADD MISSING VIEW, The grid is 5mm.



Extra Credit

Extra Credit

For the two orthographic views shown, freehand SKETCH all of the dimensions. The drawing's scale is 1"=5"; add the true dimensions.

