## *IED Midterm Review Sheet*          *Name:*_____

You may use your Engineers formula Sheet.  Write any and all info that might be helpful for the following topics.

1.  Be familiar with all Vocab from Units 1 through 5

2.  Statistical Terms:  Mean, median, mode, range.
       Know how to calculate each of the previous and what is a histogram

3.  Know the Steps in the Design Process and what happens in those steps

4.  What is a Design Brief- what information is on a design brief

5.  Geometric Constraints, Linear Constraint, Assembly Constraints

6.  Line Types- know what they look like and their names

7.  Pictorials- Isometric, Oblique, 2 pt. Perspective

8.  Inventor 3-D Features- What is needed to create it

9.  Orthographic Projections

10. Multi View Drawings

11. Right Hand Rule

12. Rules of Dimensioning

13. Multi View from Isometric

14. Isometric from Multi View

15. How to read a dial caliper, read a ruler and calculate conversions.

16. Additive and Subtractive methods of 3-D Design

17. Graphical Modeling, Mathematical Modeling, and 3-D Software Modeling

18. Degrees of Freedom – x, y, z translational (movement along the axis)
                      - x,y,z  rotational ( movement around the axis)