

Centering an Orthographic Drawing

1. Measure the horizontal length of the paper (or inside the border) from left to right.

Step 1 number:

2. Measure the longest part of the front of the object and measure the widest part of the side of the object. Add those two measures:

Minus
Step 2 number:

3. Subtract the number you got in step 2 from the number you got in step 1.

equals:

4. Take the number from step 3 and divide it into three equal parts.

Step 3 number Divided by 3 =

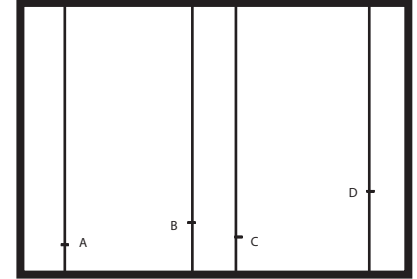
5. Use the number from step 4 to measure from the left edge of the paper (or border) and make a dot. Label it A.

6. Measure from dot A, the longest part of the front view and make another dot. Label it B.

7. Use the number from step 4 to measure from dot B and make another dot. Label it C.

8. Measure from dot C the longest part of the side view and make another dot. Label it D.

9. Draw one light vertical construction line using your t-square and triangle through each dot, A-D. Your paper will look something like the illustration here:



10. Measure the vertical height of the paper (or inside the border) from top to bottom.

Step 10 number:

11. Measure the tallest part of the front of the object and measure the widest part of the side of the object. Add those two measures:

Minus
Step 11 number:

12. Subtract the number you got in step 11 from the number you got in step 10.

equals:

13. Take the number from step 12 and divide it into three equal parts

Step 12 number Divided by 3 = blank

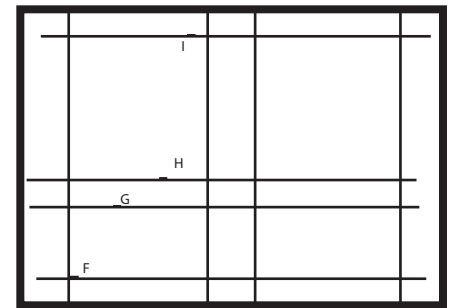
14. Use the number from step 13 to measure up from the bottom edge of the paper (or border) and make a dot. Label it F.

15. Measure up from dot F up the height of the front view and make a dot. Label it G.

16. Measure up from dot G up the number from step 13 and make a dot. Label it H.

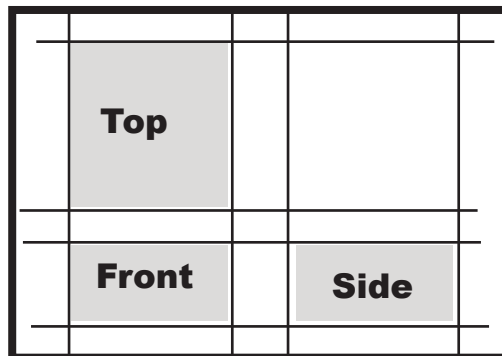
17. Measure up from dot H the width of the side of the object. Label it I.

18. Draw one light horizontal construction line using your t-square through each dot F-I. Your paper will look something like the illustration here:



19. Draw the details for each view in the appropriate space:

**Precision
Neatness
Quality**



Construction Lines = Light

Object Lines = Dark

Hidden Lines = Dash