

# Isometric Drawing – Assignment #4 (Using Tools)

1. Get a piece of blank 11” x 17” paper (Tabloid).
2. Setup the paper on the drawing board in Portrait. Tape it down, parallel to the t-square.
3. Using the T-square and setsquare, draw a border 10mm in around the outside edge of the paper.
4. Across the bottom, draw a title box that is 20mm high then divide it  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{1}{8}$ ,  $\frac{1}{8}$ , respectively (do the math ☺). The left box is your name, centre is the title (Safety Glass Cabinet), the next is the scale and the far right is the date.
5. Using a tape measure, go to the back of the room and measure out the safety glass cabinet in millimeters. Make a quick isometric sketch of the cabinet and add the dimensions so you don’t have to return several times to measure again.
6. When you go to draw the cabinet you will notice it won’t fit on the page, THEREFORE, you will have to scale it down to fit. Take the numbers you measured, except divide them by 2. This is a scale of 1:2. One drawing unit on paper equals 2 in real life. You can use the 1:2 scale on your tri-scale as well.
7. Start with the bottom corner (point A) at 40mm up from the bottom border and 105mm from the left border.
8. Use a t-square and a 30/60 setsquare for EVERY line you draw.
9. Start with the “Box” method to confirm the object will be centred on the page. If it is NOT centred, adjust it accordingly so that it is. Remember - draw the whole thing in REALLY light construction lines.
10. Once the “box” has been completed add the detail of the object. The lighter the lines, the easier it will be to erase later.
11. These are the ONLY so many times you need to measure. Use the tools instead!!!
12. Once the detail lines are complete, carefully ERASE all the unwanted ones (use an eraser shield).
13. NOW, darken all the OBJECT lines and the BORDER in and then clean up ANY other lines that don’t perfectly meet using the eraser shield.
14. Make sure the title (Safety Glass Case), your name, scale 1:2 and date are printed in CAPITAL LETTERS neatly. To do this, use light horizontal construction lines 14mm tall as guidelines within your title block to keep the text neat.
15. Submit for marking



## Marking Criteria

Line and pencil techniques used correctly \_\_\_\_\_/2  
(boxed out method, construction lines, etc)

Instructions followed \_\_\_\_\_/3  
(title block, lines darkened, position, etc)

Appearance \_\_\_\_\_/5  
(no smudges, lines meet perfectly, etc)

Name: \_\_\_\_\_