HOW TO DRAW A BOX IN PROPORTION IN 3/4 VIEW

Horizontal and Vertical Units of One are the measurements for the Units of One Rectangle. The entire drawing must fit inside this rectangle. All other measurements are attached to it. This relationship between individual measurements that always return to the whole size allowed, is what keeps the drawing in proportion.

1. Use your dominant eye and proportional tool (back of a 12 inch straight edge taped with clean masking tape) to locate Units of One.

   **Horizontal Unit of One** is the two widest points. Hold the straight edge horizontally and line up one end of the straight edge with one edge of the box. Mark where the other edge of the box intersects with the straight edge.

   ![Mark on your straight edge](image)

   **Vertical Unit of One** is the highest and lowest points. Find your horizontal unit of one and turn your straight edge vertically staying in the same plane in space. Line up the top edge of the ruler with the highest back corner of the box. Mark where the lowest point of the box intersects with the straight edge. Write “V” on this line to distinguish it on your straight edge.

   ![Mark on your straight edge. Write “V” on this line.](image)

2. Transfer these measurements from your straight edge to the drawing surface to create your Units of One Rectangle. Place the straight edge to your nose horizontally in the” chicken wings” position (elbows up and out so arm pits are aired). Each end of the straight edge is held in each hand with finger tips. Move the straight edge away from your nose until the Horizontal Unit of One is lined up on the drawing surface at the desired size. Transfer the marks to your paper.

   Return the straight edge to the horizontal position in front of your nose and locate your Horizontal Unit of One on your paper matching the marks on your straight edge. Now, staying in the same plane in space, turn the straight edge vertically and transfer your Vertical Unit of One to the paper. Draw the Units of One Rectangle.