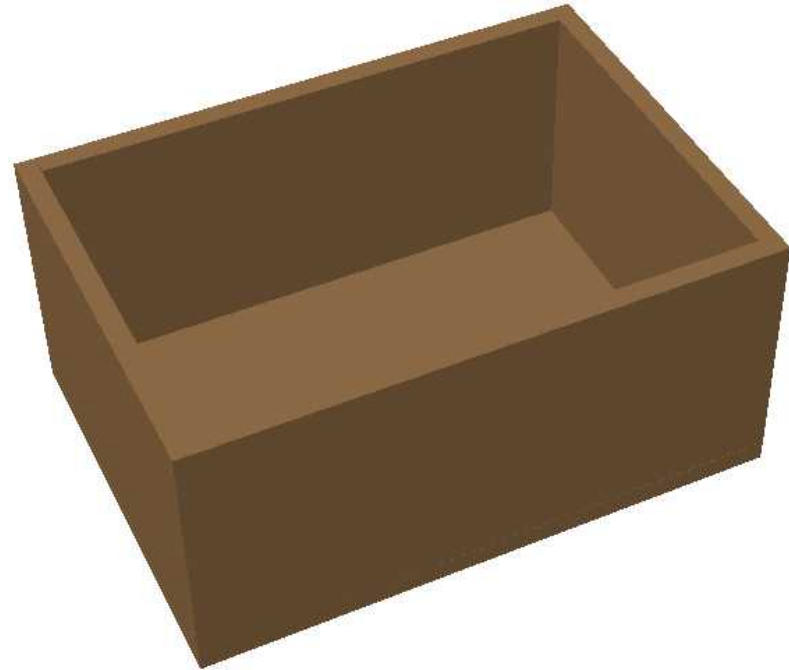


The Language of Drawing

Chapter 9:

Assembly drawings

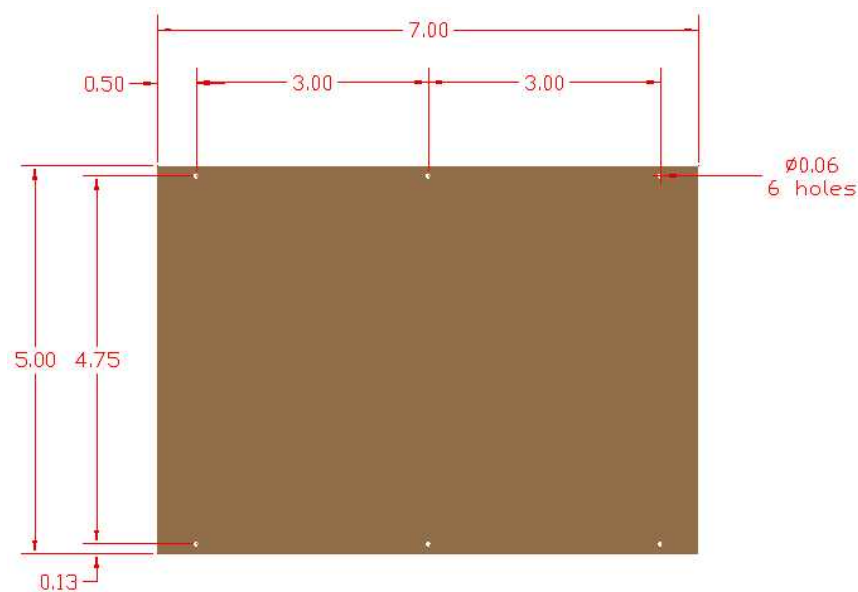


Up until now, all your drawings have been single-piece parts. This box, however, has four sides and a bottom. To draw the box, you will need to draw an assembly drawing.

Here is a picture of a box:

An assembly drawing usually contains only one view, unless more are necessary. In this case, only one will be needed. All the parts of the box will be cut from the same material: 0.25"-thick walnut wood. We know that all of the pieces will have the same width, so there is no need to show them from the side.

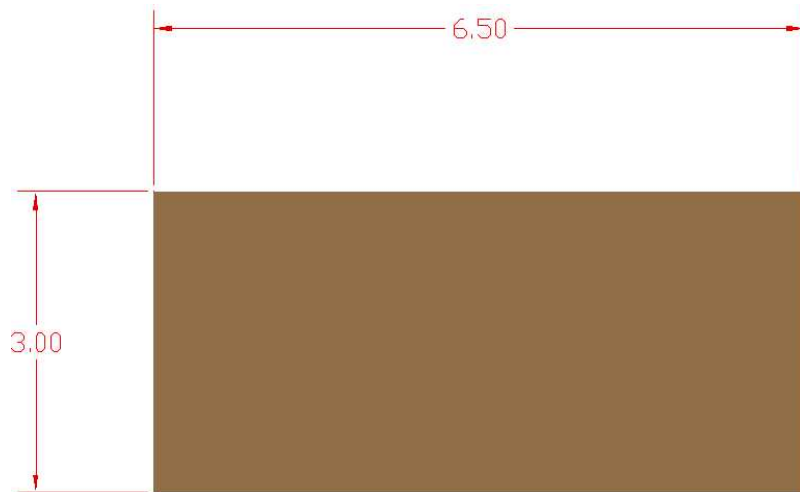
below, referring to the example on the left if you have trouble.



Let's start with the bottom. As you can see in the picture above, the bottom of the box is 5" by 7". Also, it has six 0.06" holes placed around the outside.

Draw and dimension the bottom piece

Here is the piece that will be the longer side of the box.

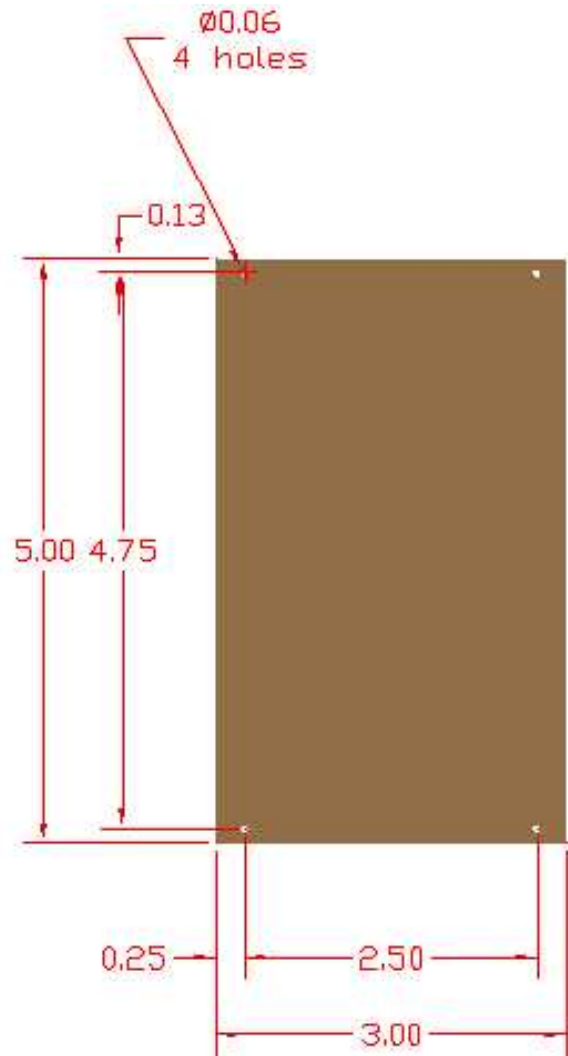


Notice that this side does not have holes. The bottom piece's holes will be used to fasten this side down with some sort of screw.

Draw and dimension the long side of the box below, using the example on the left as a guide.

Here is the piece that will make up the shorter end of the box.

the box below, referring to the example if you have trouble.

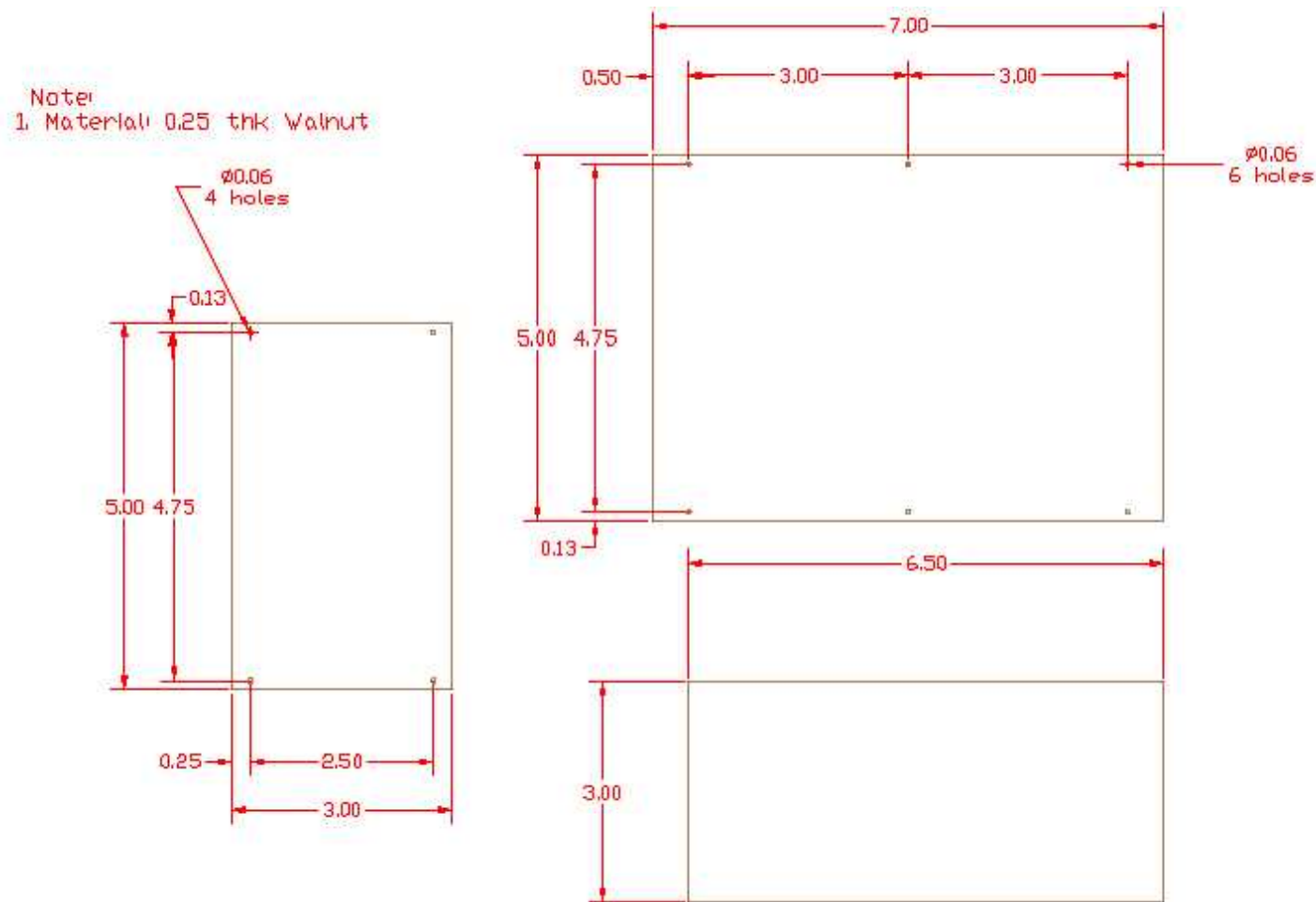


The holes in this piece will be used to fasten it to the sides of the longer piece.

Draw and dimension the short piece of

Though you have only drawn three pieces, you have drawn all the detail needed to create the assembly drawing. The bottom part will only be used once, but each side

part will be used twice to make a total of 5 pieces that form the box.



Here is a picture of the finished assembly drawing. The pieces are shown from the top view and laid out near the edges where they will be attached. Only one side from each of the pairs of sides is shown. In addition, a Notes section is included in the top left-hand corner showing the material used.

Draw and dimension the assembly drawing below, including the notes. Refer to the example on the last page for help.