

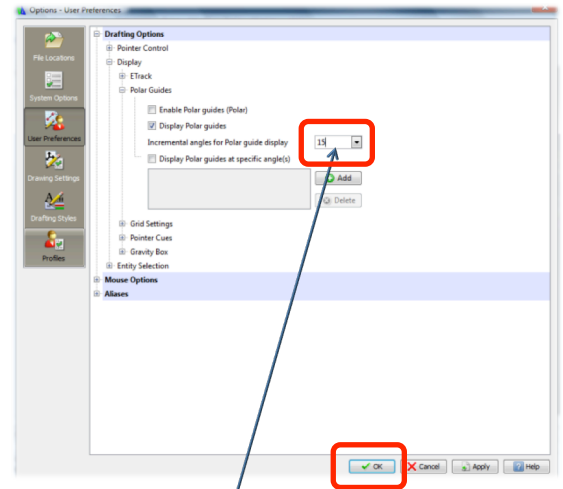
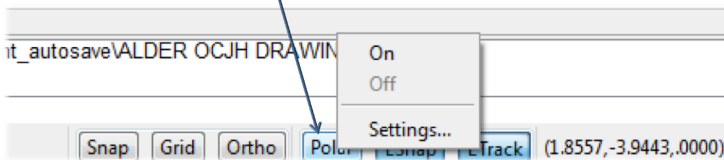
Isometric Block

For the correct size and look of the block, see the example page.
Make sure to include the dimensions on your drawing.

Procedure:

1. To start the Isometric Block, **Open** the Template file and **Save As** a new file called *Isometric Block* in your student folder. (See CAD Tutorial if you forgot how)

2. An isometric drawing is used to show a shape in 3D. We do this using lines drawn at a 30 degree angle. Remember that to draw angled lines we can use the **Polar** button. You should first make sure that the angles are set correctly by right-clicking (**CTRL+SHIFT+CLICK**) on the Polar button. Next click on Settings.



The *Options – User Preferences* window will open and we can change the “Incremental Angles” to **30**. This is all we need to change so click the **OK** button. With our **Polar** button “on”, start drawing the Isometric Block. We can still tell how long each line to be in our **Line** tool.

3. Now that we have the Block drawn we need to dimension it. There are a few dimension tools that we need.



- The first is the **Linear** dimension tool and will dimension any of the straight lines on our drawings. To use this tool, click one end of the line, click the opposite end of the line, then pull your mouse away from the object and type **.5**. This will place your dimension $\frac{1}{2}$ ” away from your object. (remember that it is easiest to click on the end of the line if you have your **Esnap** button “on”).

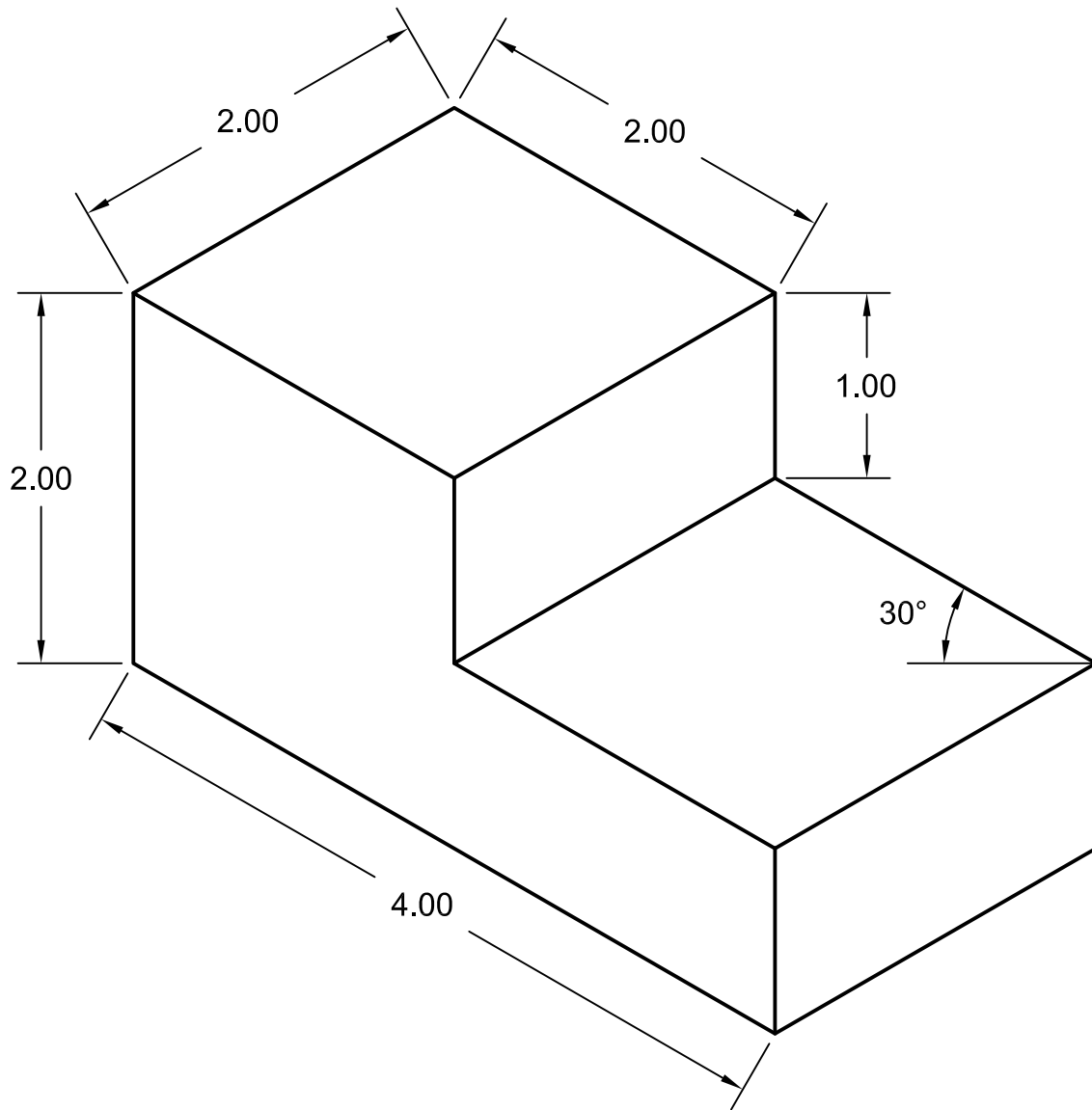


- The second is the **Aligned** dimension tool and will dimension any lines drawn on an angle. This tool is used in the same way as the Linear button. To use this tool, click one end of the line, click the opposite end of the line, then pull your mouse away from the object and type **.5**. This will place your dimension $\frac{1}{2}$ ” away from your object. (remember that it is easiest to click on the end of the line if you have your **Esnap** button “on”).



- The third dimension tool is the **Angular** dimension tool. This tool will tell us the angle between two lines. This means that we need to have two lines to click on. For this assignment you will need to draw an extra horizontal line to click on. When finished with the dimension tool you need to erase this extra line. After clicking on the **Angular** dimension button, select the two lines that need the dimension. Next, move your mouse out far enough that the dimension shows and click. Remember neatness counts!

4. Dimension your Isometric Block to look exactly like the Sample drawing. You will be graded on accuracy and neatness. When you are finished follow the Print Tutorial and turn it in.



SAMPLE

ISOMETRIC BLOCK

PERIOD #