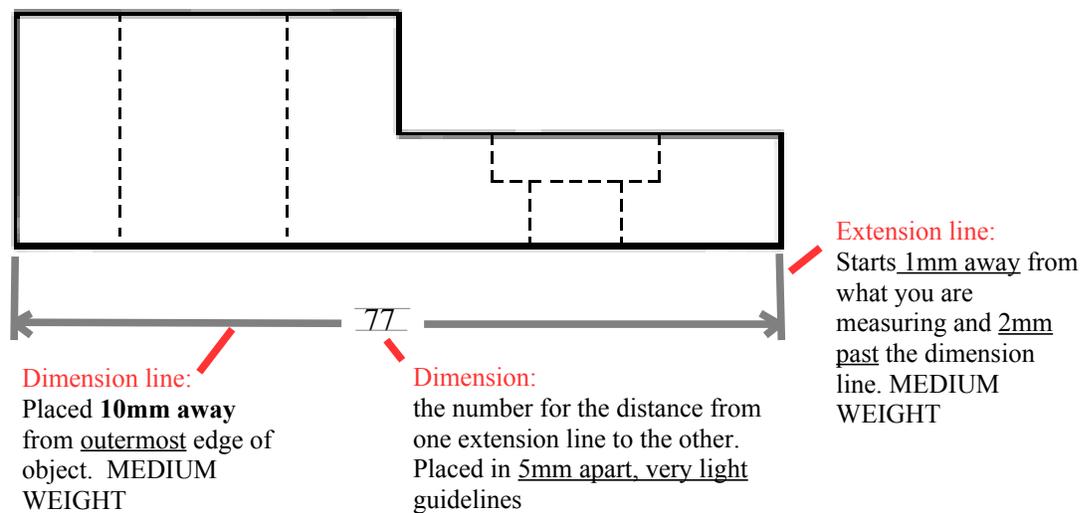


DIMENSIONING: Getting Started

Once you've completed your 3 views (top, front, and side) it's time to add your dimensions

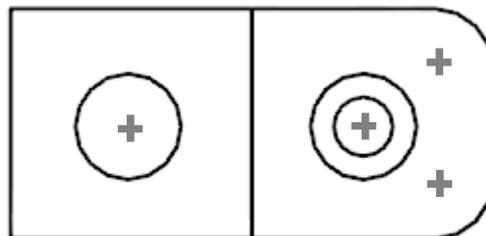
Dimensions provide information about the exact sizes of different parts of our object.

A typical dimension usually consist of 3 parts: **Extension line, dimension line, and number**



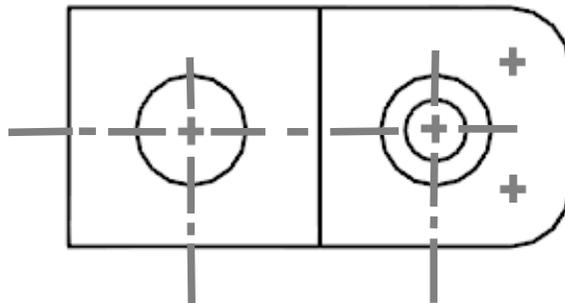
1) **Start with your holes or circles (if you have any)**

Make the **centre marks** for all circles and arcs (a nice, clean, ruler drawn plus sign)

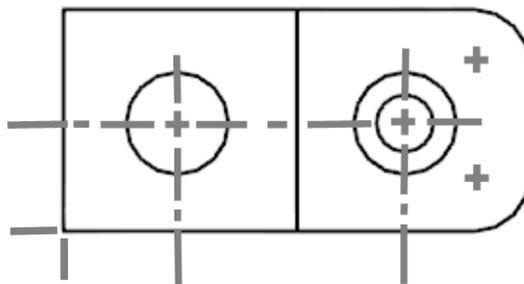


Add centre lines (long, short) and extend out where you want to place dimensions.

Plan ahead so that these aren't in going to be in the way later on.

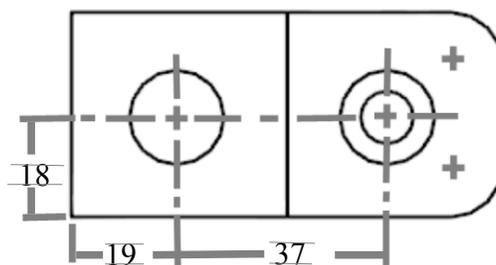


Add extension lines where you want to place dimensions (1 mm long and 1 mm away from the object)

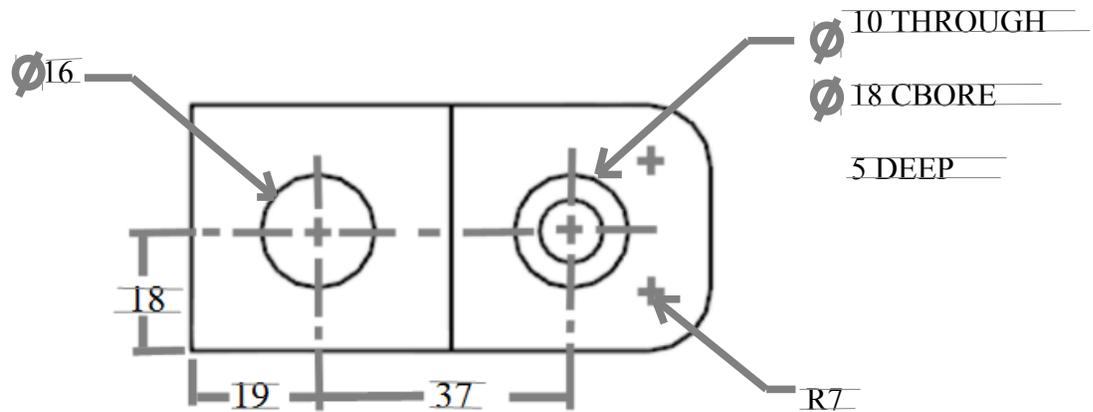


Add dimension lines (10 mm away from edge to object) with arrows heads (not shown here but you'll put them on your drawing).

Add the number in 5mm guidelines.



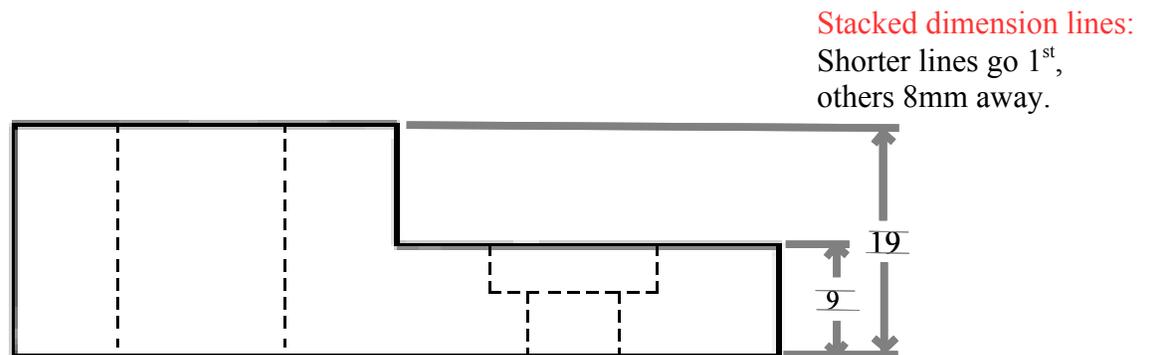
We now need to add the leader lines for our arcs and circles in order to describe our diameter and other characteristics of the hole.
All text in guidelines with spaces between lines.



Next we can add all the other linear dimensions needed to the other views. Think ahead to place dimensions in logical places.

Some points to remember:

If you need to ‘stack’ dimensions, put the shorter dimensions 1st, and the stacked dimension lines are only 8mm away from the 1st dimension line.



Only label a distance **once** even if it appears in other parts of the drawing

All numerals go the **same direction** regardless of dimension line direction except for architectural drawings or other complex drawings.