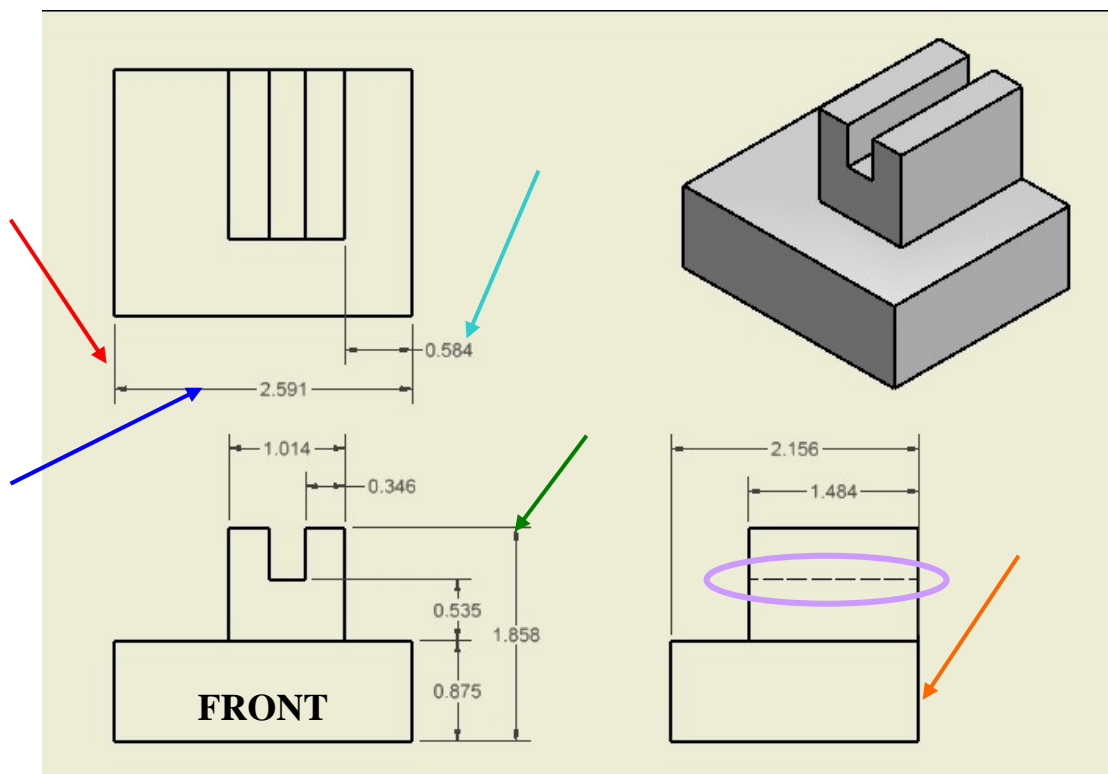


DIMENSIONING

- **Extension Lines**- Lines extending from the object indicating edges or extents of the figure. There is a small gap between the object and the extension lines.
- **Dimension Lines**- line containing arrowheads running from one extension line to the other. Dimension lines indicate the extent of the dimension. These should line up.
- **Arrow Heads**- two strokes coming to a point, that touch the extension line. These exist at the end of a dimension line.
- **Object lines**- lines that make up the figure itself
- **Precision**- the amount of decimal places to which a dimension is taken (ex. 1.234 in)
- **Hidden Lines**- hidden (unseen) parts of the object are indicated by hidden lines
- **3-view drawings** - Front, top, right side, (and isometric) of an object
- **Front view**- shows the most shape about an object
- **The 3 dimensions**: height, width, and depth-----no length!

A 3-VIEW DRAWING



General Rules For Dimensioning

DO NOT:

- *Dimension outside of the views.*
- *Dimension to hidden lines or features.*
- *Cross dimension lines.*
- *Duplicate dimensions.*
- *Have unnecessary dimensions - only those needed to produce the part.*
- *Cross extension or object lines, if possible.*
- *Place dimensions on the object, if possible.*

DO:

- *Apply all necessary centerlines.*
- *Show three overall dimensions for height, depth, and width.*
- *Show dimensions in ascending order from the object.*
- *Place dimensions so that it is not necessary to calculate or assume any measurement.*
- *Center dimension numbers between arrowheads.*