Dimensioning Rules

Georgian Bay Community School
Technological Studies Department

1. **Clarity is Key** - Each dimension should be given clearly so it can be interpreted in only one way.

2. **No double Dimensioning** - Dimensions should not be duplicated or the same information given in two different ways.

3. **Think of how it will be made** - Dimensions should be given between points or surfaces that have a functional relation to each other, or that are easily measured from, or that control the location of mating parts.

4. **Don't create uncertainty** - When possible, dimensions should be given so it will not be necessary for the machinist to calculate, scale, or assume any dimension.

5. **Put dimensions on the best view** - Dimensions should be attached to the view where the shape is best shown and the features dimensioned are shown true shape.

6. **Don't dimension hidden lines or objects** - Use a view that is not hidden. If not possible, then provide a "break-out" view or "cross section".

7. **Don't dimension on top of the object** - Place dimensions and notes so they are away from the object view.

8. **Never cross dimensions** - Don't place dimensions in such a way that they cross another dimension line.

9. **Stack dimensions** - Place dimensions so that longer or overall dimensions are furthest from the object so that there is a natural progression and related dimensions appear in the same spot.

10. **Alignment and spacing** - Maintain alignment and spacing to give a orderly appearance

11. **Avoid Clutter** - Scale your drawing so that the object if clear and there is enough room to place dimensions so they are well spaced and not cluttered together. Complex parts require bigger paper.

12. **Avoid dimensioning auxiliary views** - Views provided for clarity, such as isometric views, detail views, break away views, and cross sections should not have dimensions unless those views are the only way to reveal a measurement.

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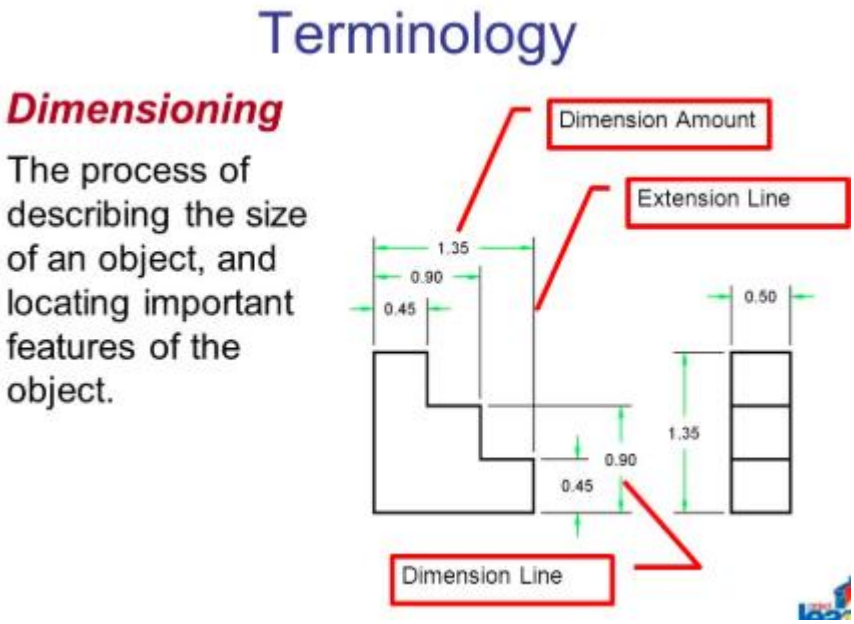

Stacked dimensions
TIP: Do you have all required dimensions?

Every feature needs 6 pieces of dimensional information
Its own dimensions (L W H) and its location (X Y Z).

Not all 6 need to be dimensioned, but they need to be obvious.