

## Objectives

List the types of drawings usually included in a set of plans and describe the information found on each type.
e. Describe the methods of dimensioning construction drawings.

## Kickoff Activity

- Convert the following measurements to metric units.



## Section 1.5.0

- Dimensions on drawings
- Indicate actual sizes, distances, and measurements
- May be indicated from outside to center, center to center, wall to wall, or outside to outside
- Are noted in full scale



## Section 1.5.0

## - NOTE

- Unless absolutely necessary, always use the dimensions shown on a drawing rather than ones obtained by scaling the drawing. Some print reproduction methods may slightly reduce or enlarge drawings, which can introduce errors if the print is scaled.


## Section 1.5.0

- In the United States, length dimensions shown on construction drawings are typically expressed in feet and inches using the English system of measurement.
- In Canada and many other parts of the world, the SI (International System of Units) metric system of measurement is used for dimensions.


## Section 1.5.0

- The two common length measurements used in the metric system on construction drawings are the meter and millimeter.
-1 meter = 39.37 inches (in)
-1 meter = 3.2808 feet (ft)
-1 meter = 1.0936 yards (yd)
-1 millimeter $=0.03947$ inch (in)


## Section 1.5.0

- Some common practices for dimensioning drawings:
- Dimension lines are unbroken lines, with the dimensions placed above and near the center of the line.
- Dimensions over one foot are shown in feet and inches (not decimals). Dimensions less than one foot are shown in inches only.


## Section 1.5.0

- Some common practices for dimensioning drawings (continued)
- Dimensions are placed to be read from the right or from the bottom of the drawing.
- Overall building dimensions go to the outside of all other dimensions.


## Section 1.5.0

- Some common practices for dimensioning drawings (continued)
- Rectangular room sizes can be shown by stating width and length (usually near the room name), rather than using dimension and extension lines.
- Rooms are sometimes dimensioned from the center lines of partition walls, but wall-to-wall dimensions are more common.


## Section 1.5.0

- Some common practices for dimensioning drawings (continued)
- Window and door sizes are usually shown in window and door schedules.
- Dimensions that cannot be shown directly on the floor plan because of their size are placed at the end of leader lines.


## Section 1.5.0

- Some common practices for dimensioning drawings (continued)
- When stairs are dimensioned, the number of risers is placed on a line with an arrow indication in either an up or down direction.
- Architectural dimensions always refer to the actual size of the building, regardless of the scale of the drawings.


## Wrap Up

Make a scale drawing of a simple floor plan using a scale of your choice. Make sure to include dimensions on your plans, as well as the scale.

Next Lesson: Plan View Drawings, Part Three
Review Sections 1.6.0-1.6.5

