

Basic Dimensioning Skills

Objective 006.01_ Identify the accepted standards for mechanical dimensioning practices.

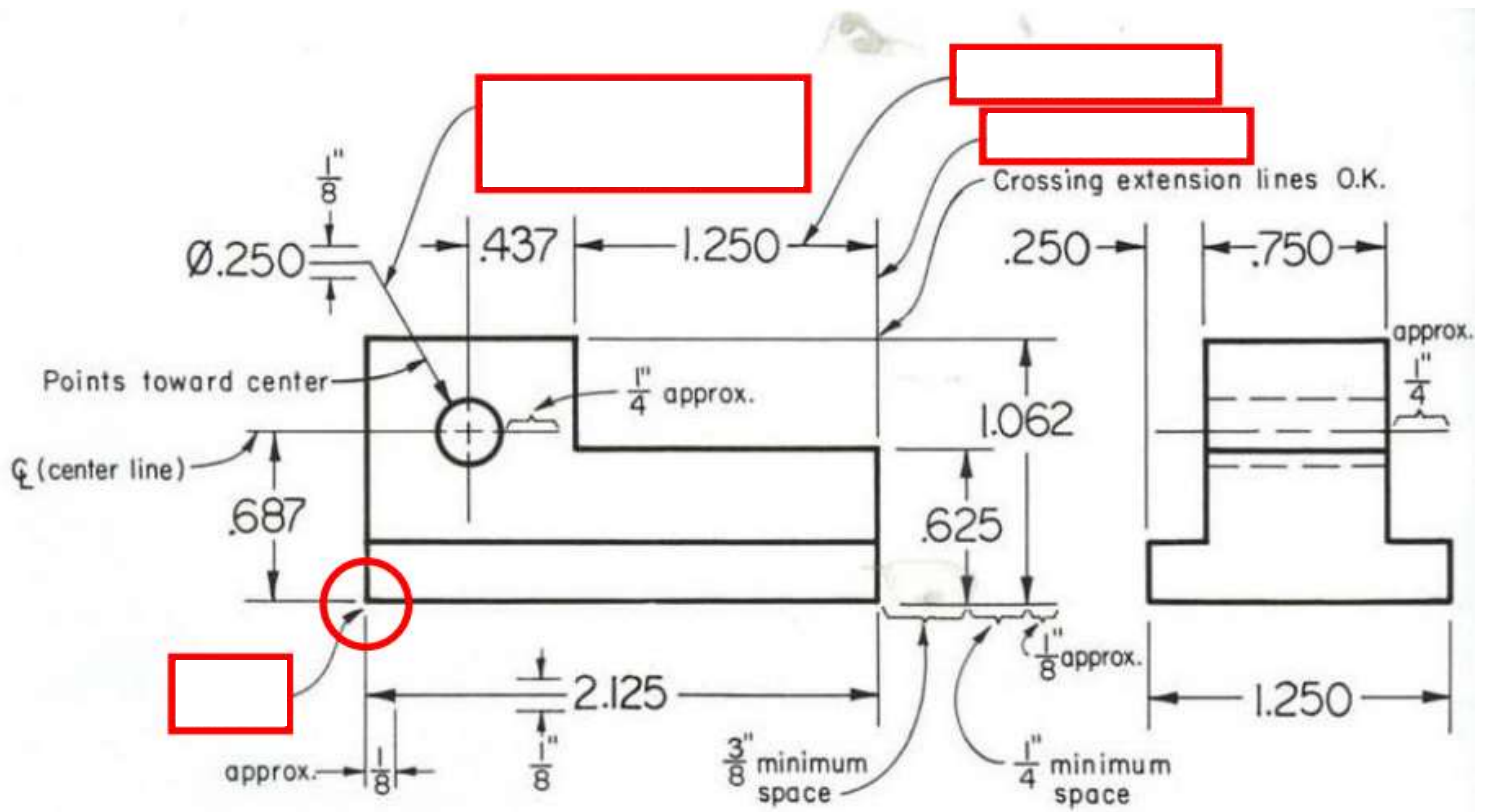
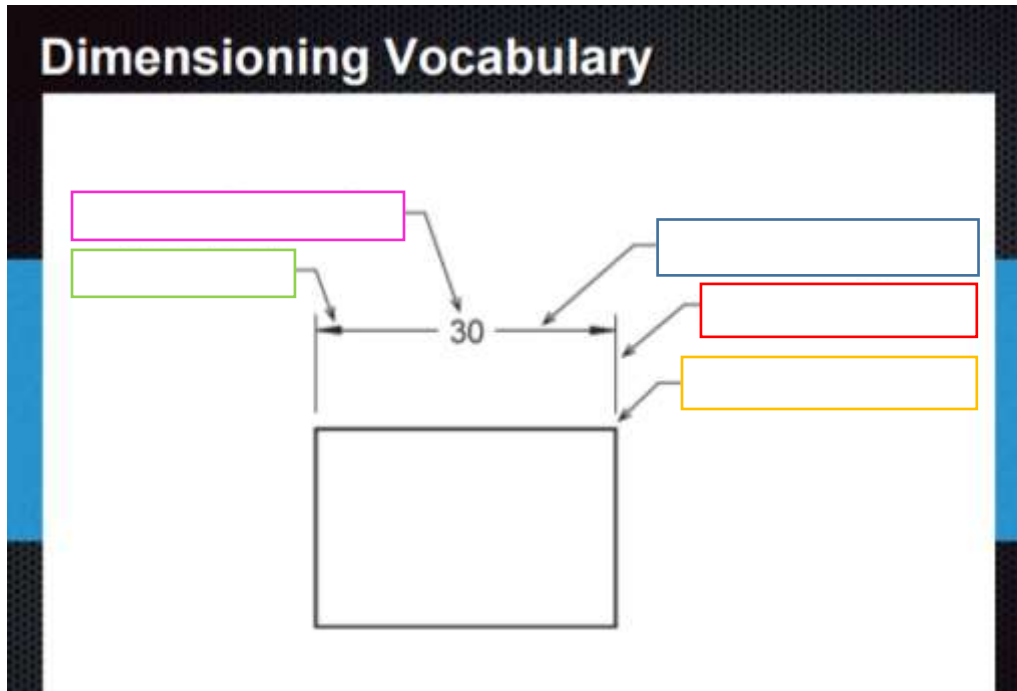
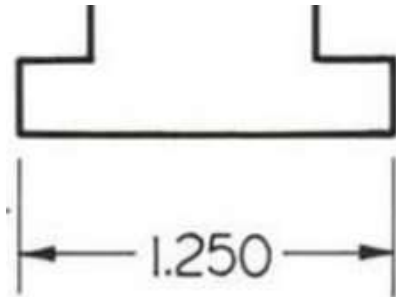


Fig. 10-1. Dimensioning conventions.

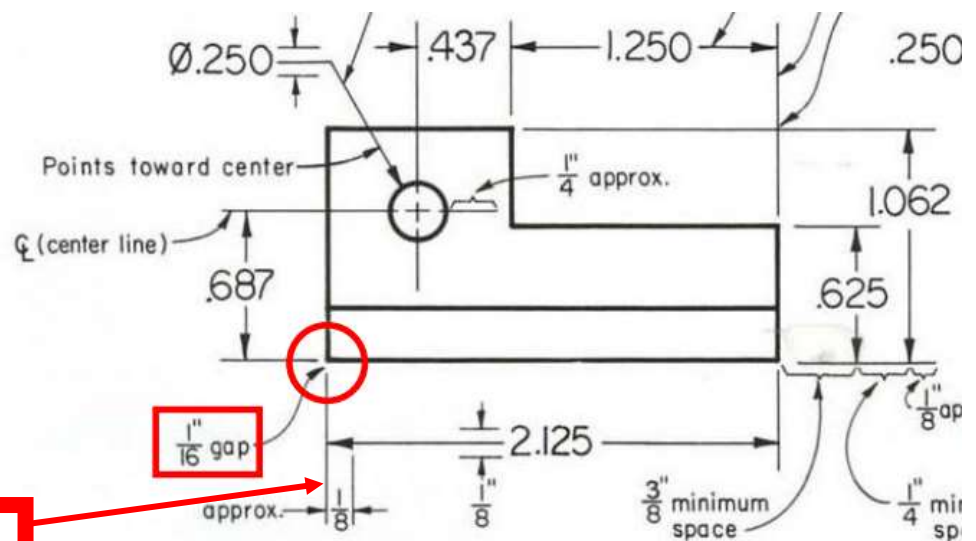
Dimension lines:

- Show the _____ and the _____ of the measurement.
- Terminated by _____.
- _____ line weight.
- Should be _____ to allow for the numbers to be inserted.



Extension lines:

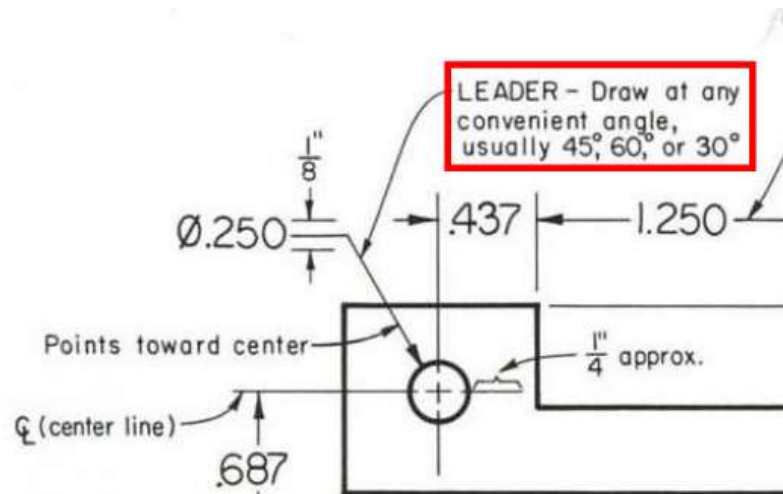
- _____ the edge of the object.
- _____ line weight.
- There should be a _____ between the _____ and the start of the extension line.
- Extension lines should extend _____ the last dimension line.



Extension line

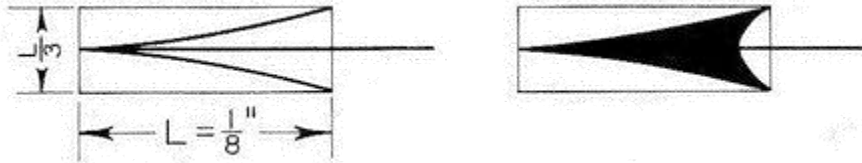
Leader lines:

- Are drawn from a _____ or _____ to the place where the note applies.
- Are drawn at an _____ (usually 30, 45, 60 degrees).
- Should have a _____ that if extended, would intersect the note at _____.
- May end with an _____ or _____.
- If extended, the leader would pass through the _____ of arcs or circles (radial dimension).
- Leaders should _____ or through other leaders or dimensions.
- _____ making leaders _____ or _____ to visible edges.
- Should _____ from the _____ word or the _____ word of the note.



Arrowheads:

- Can be _____ filled or _____.
- Should be approximately _____ to _____ times as long as it is wide.



Dimensioning placement for reading:

- _____ - recognized as standard for engineering drawing.
- _____ - preferred practice in architectural drawing.

Unidirectional. The dimensions are written horizontally.

Aligned. The dimensions are written parallel to their dimension line. (Aligned dimensions should always be readable from the bottom or the right of the drawing.)