

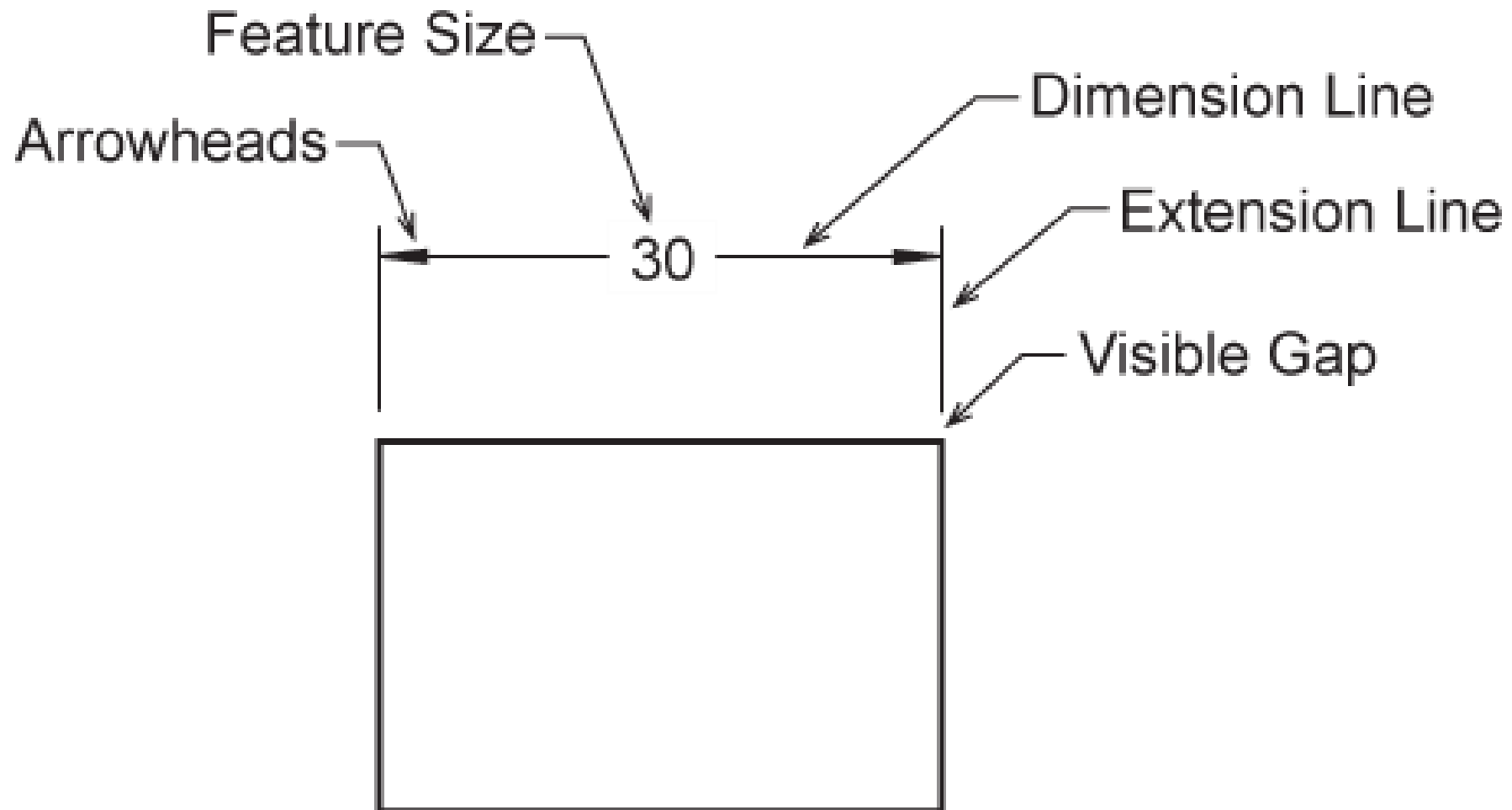
Presentation #1

Basic Dimensioning Skills

Objective 006.01

Identify the accepted standards for mechanical dimensioning practices.

Dimensioning Vocabulary



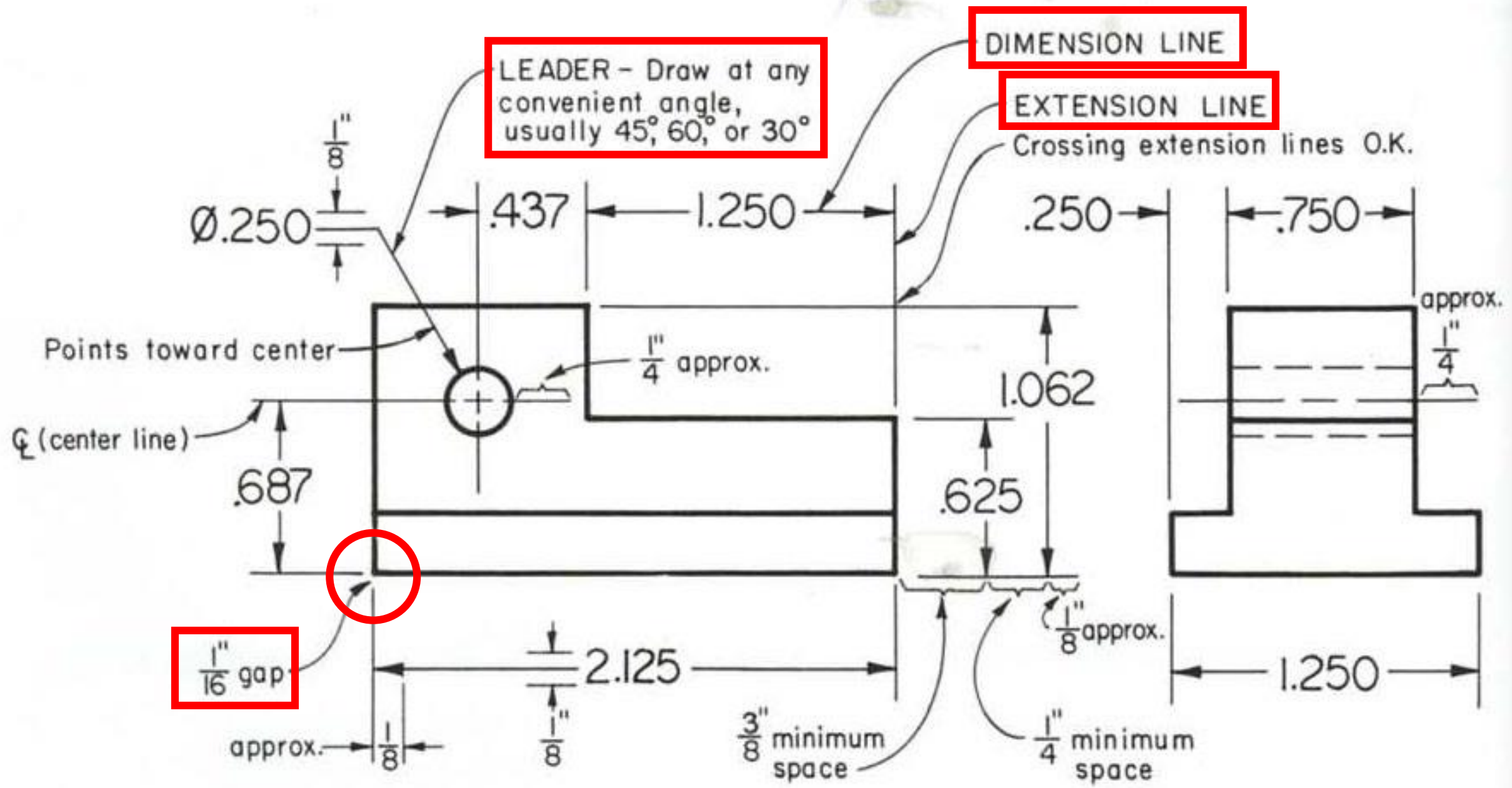


Fig. 10-1. Dimensioning conventions.

Dimension lines:

- *show the BEGINNING and the END of the measurement.*
- *TERMINATED by arrowheads.*
- *THIN line weight.*
- *should be BROKEN to allow for the numbers to be inserted.*

Extension lines:

- *EXTEND* the edge of the object.
- *THIN* line weight.
- there should be a *VISIBLE GAP* between the object and the start of the extension line.
- extension lines should extend *BEYOND* the last dimension line.

Leader lines:

- *are drawn from a NOTE or DIMENSION to place where the note applies.*
- *are drawn at an ANGLE (usually 30, 45, or 60 degrees).*
- *should have a SHORT SHOULDER that if extended, would intersect the note at mid-height.*
- *may end with an ARROWHEAD or DOT.*

- *if extended, the leader would pass through the CENTER of arcs or circles (radial dimension).*
- *leaders should NOT cross over or through other leaders or dimension lines.*
- *AVOID making leaders parallel or perpendicular to visible edges.*
- *should extend from the FIRST word or the LAST word of the note.*

Arrowheads:

- *can be SOLID filled or OPEN.*
- *should be approximately 2.5 to 3 times as long as wide.*

Dimensioning placement for reading:

- *UNIDIRECTIONAL* - recognized as standard for engineering drawing.
- *ALIGNED* - preferred practice in architectural drawing.

