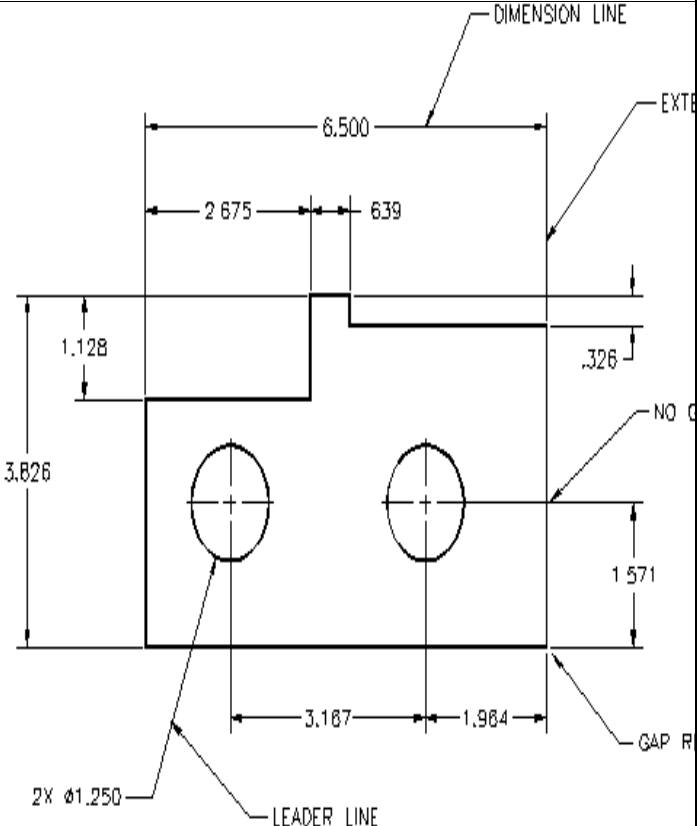




# Intro to Tech Draw Vocabulary

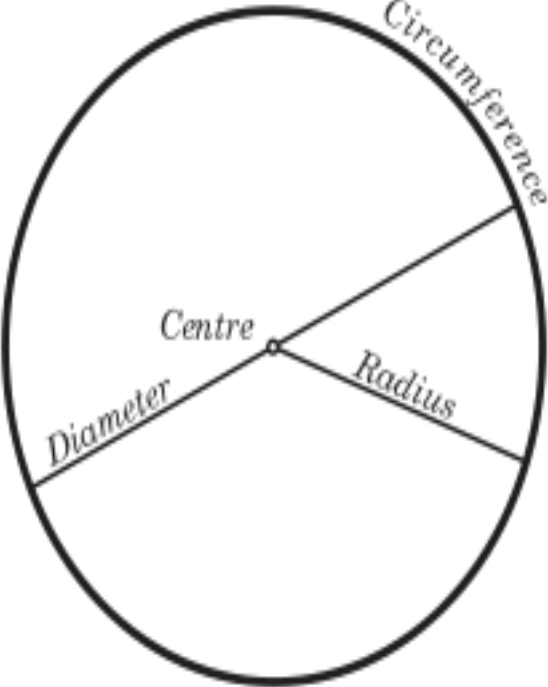
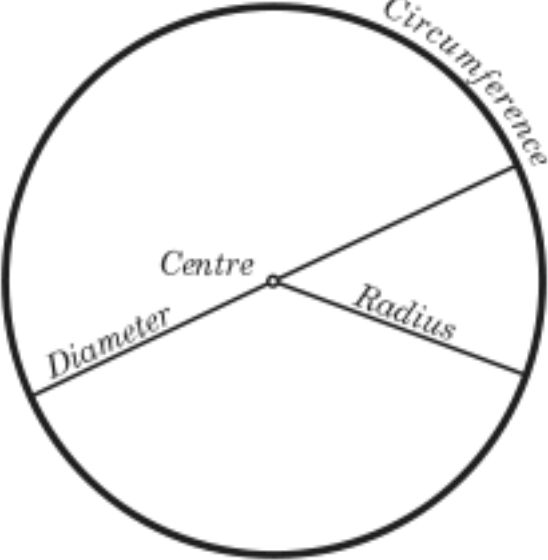
## Dimensioning Unit



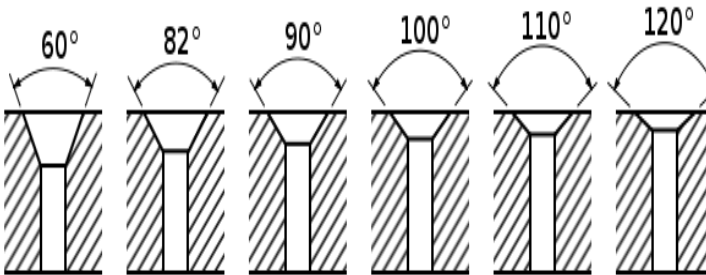
Word	Definition	Your Definition	Sketch
Dimension Line	A line used to define the measurement of a part feature. Dimension lines consist of a solid line with arrows at both ends and a dimension in the center.	A line used to show how long part of something is.	 <p>The sketch shows a technical drawing of a stepped shaft with various dimensions and labels. The dimensions include: 6.500 (total length), 2.675 (distance from left end to first step), 6.39 (distance from first step to second step), 1.128 (height of first step), .326 (height of second step), 3.826 (total height), 1.571 (height from bottom to center of holes), 3.187 (distance between hole centers), and 1.984 (distance from hole center to right end). Labels include 'DIMENSION LINE' pointing to a horizontal dimension line, 'EXTENSION LINE' pointing to a vertical line, 'NO C' (likely NO CHAMFER) pointing to a corner, 'GAP R' (likely GAP RADIUS) pointing to a corner, 'LEADER LINE' pointing to a line connecting a hole to its specification '2X Ø1.250', and '2X Ø1.250' pointing to the holes.</p>

<p>Extension Line</p>	<p>A line used to visually connect the ends of a dimension line to the relevant feature on the part. Extension lines are solid and are drawn perpendicular to the dimension line.</p>	<p>Solid lines used to show the ends of a dimension</p>	<p>The diagram shows a mechanical part with various dimensions and annotations. A horizontal dimension line of 6.500 is shown with extension lines. A vertical dimension line of 3.826 is also shown. A dimension of 2.675 is shown between two vertical lines, and a dimension of 6.39 is shown between a vertical line and a horizontal line. A dimension of 1.128 is shown between two horizontal lines. A dimension of .326 is shown between a horizontal line and a vertical line. A dimension of 1.571 is shown between two horizontal lines. A dimension of 3.187 is shown between two vertical lines, and a dimension of 1.984 is shown between a vertical line and a horizontal line. A dimension of 2X Ø1.250 is shown with a leader line pointing to two circular features. A dimension line is labeled DIMENSION LINE, and extension lines are labeled EXTENSION LINE. A dimension line is labeled NO GAP, and a dimension line is labeled GAP REQUIRED. A dimension line is labeled LEADER LINE.</p>
<p>Leader Line</p>	<p>A thin line with an arrow head that is often positioned at an angle and is used to tie a dimension to a feature, especially when there are space limitations.</p>	<p>A ray that is shown to tie a dimension to a feature.</p>	<p>The diagram shows a leader line with a black circular arrow head pointing to a feature. Below it is a legend for Annotation Symbols showing Leader, Leader 2, and Leader 3. The legend shows a vertical line with three horizontal lines branching off at different angles, labeled Leader, Leader 2, and Leader 3. The Leader 3 label is highlighted in a grey box.</p>

<p>ANSI</p>	<p>The Institute oversees the creation, promulgation and use of thousands of norms and guidelines that directly impact businesses in nearly every sector: from acoustical devices to construction equipment, from dairy and livestock production to energy distribution, and many more. ANSI is also actively engaged in accrediting programs that assess conformance to standards – including globally-recognized cross-sector programs such as the ISO 9000 (quality) and ISO 14000 (environmental) management systems.</p>	<p>A business that oversees the production of lots of things in the United States.</p>	 The logo for the American National Standards Institute (ANSI). It features a blue stylized 'C' shape on the left, and the letters 'AN' in a bold, black, sans-serif font to its right. The logo is contained within a white rectangular box with a blue border.
-------------	---	--	--

<p>ASME</p>	<p>ASME is a not-for-profit membership organization that enables collaboration, knowledge sharing, career enrichment, and skills development across all engineering disciplines, toward a goal of helping the global engineering community develop solutions to benefit lives and livelihoods.</p>	<p>An organization of people that helps people share their knowledge with others.</p>	 <p>The logo for ASME (American Society of Mechanical Engineers) is displayed. It features a stylized globe in the background, composed of blue lines. In the foreground, the letters 'ASME' are written in a large, bold, blue serif font. Below the letters, the tagline 'SETTING THE STANDARD' is written in a smaller, blue, sans-serif font. A blue horizontal line with a slight downward curve is positioned below the tagline.</p>
-------------	--	---	--

<p>Diameter</p>	<p>the length of a diameter is also called the <b>diameter</b>. In this sense one speaks of <i>the</i> diameter rather than a diameter, because all diameters of a circle have the same length, this being twice the <b>radius</b>.</p>	<p>The length of a circle is called THE diameter, not A diameter. But one must speak this way to ensure absolutely nothing about what a diameter actually means.</p>	 <p>A diagram of a circle with a central point labeled 'Centre'. A horizontal line segment passing through the center is labeled 'Diameter'. Two line segments extending from the center to the circumference are labeled 'Radius'. The outer edge of the circle is labeled 'Circumference'.</p>
<p>Radius</p>	<p>a <b>radius</b> of a circle or sphere is any line segment from its center to its perimeter</p>	<p>A radius of a circle is half the length of a circle or half THE diameter, not A diameter because that is two different things.</p>	 <p>A diagram of a circle with a central point labeled 'Centre'. A horizontal line segment passing through the center is labeled 'Diameter'. Two line segments extending from the center to the circumference are labeled 'Radius'. The outer edge of the circle is labeled 'Circumference'.</p>

<p>Angular Dimension</p>	<p>An angular dimension is a group design object. It allows for the dimensioning of angular distances.</p>	<p>The dimension of an angle.</p>	
<p>Counterbore</p>	<p>A <b>counterbore</b> can refer to a cylindrical flat-bottomed hole, which enlarges another hole, or the tool used to create that feature.</p>	<p>It's like a mushroom hole. One drill makes both of the holes.</p>	
<p>Countersink</p>	<p>A <b>countersink</b> is a <b>conical</b> hole cut into a manufactured object, or the cutter used to cut such a hole.</p>	<p>A mushroom hole on an angle. This is done by one tool at once.</p>	

Name Jordan Roseman  
Period 7