Parts of a Circle: A Visual Glossary

Circle – the set of all points equidistant from a given point called the **center**.

Circumference – the distance around the circle.

Diameter – a segment that contains the center of a circle and has both endpoints on the circle.

Radius - a segment that has one endpoint at the center and the other endpoint on the circle.

Tangent – a line that intersects the circle in exactly one point.

Chord – a segment whose endpoints are on a circle.

Secant – a line that intersects a circle at two points.

Semicircle – half of a circle

Minor arc – smaller than a semicircle

Major arc – larger than a semicircle

Central Angle – An angle whose vertex is the center of the circle.

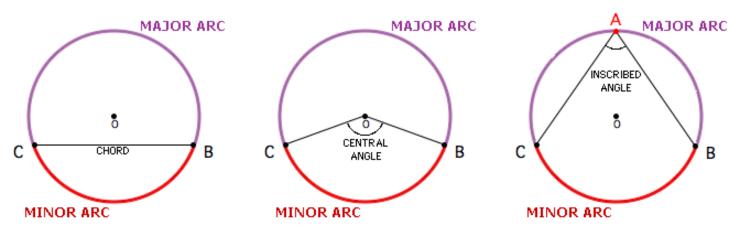
Inscribed Angle - An angle whose vertex is on the circle and whose sides are chords of the circle.

Intercepted Arc – an arc with endpoints on the sides of an inscribed angle.

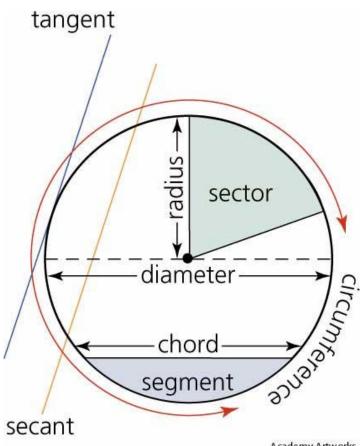
Arc Measure – equal to the measure of the central angle in degrees.

Arc Length – equal to the circumference X (arc measure)/360°

Sector Area – equal to the circle area X (arc measure)/360°



To name an arc, use the two endpoints of the arc if minor and the two endpoints and a point in between if major. In the last circle on the right: \widehat{BC} is minor, \widehat{BAC} is major. If a point between is not provided, then state that the arc is a major arc.



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Circle Theorems: Concept Maps

