Name	
Date	Period

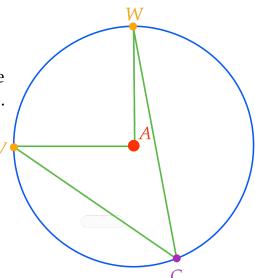
Central Angle

A central angle is an angle whose vertex at the center of the circle and endpoints on the circle.

∠*VAW* is a central angle

Inscribed Angle

An inscribed angle is an angle whose vertex is on the circle and endpoint on the circle. $\angle VCW$ is an inscribed angle

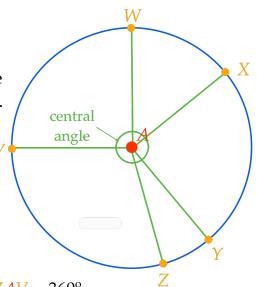


Central Angle

A central angle is an angle whose vertex at the center of the circle and endpoints on the circle.

∠*VAW* is a central angle

Sum of Central Angles
The sum of all non-overlapping central angles within a circle is 360°.



 $m \angle VAW + m \angle WAX + m \angle XAY + m \angle YAZ + m \angle ZAV = 360^{\circ}$

Central Angle

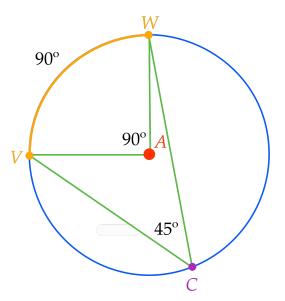
The measure of a central angle is equal to the measure of the arc it intercepts.

$$m \angle VAW = mVW$$

Inscribed Angle

The measure of an inscribed angle is equal to one-half the measure of the arc it intercepts.

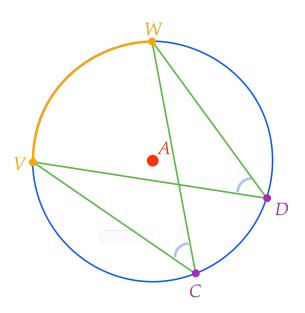
$$m \angle VCW = \frac{1}{2}m\widehat{VW}$$



Inscribed Angle

If two inscribed angles intercept the same arc, then those two inscribed angles are congruent.

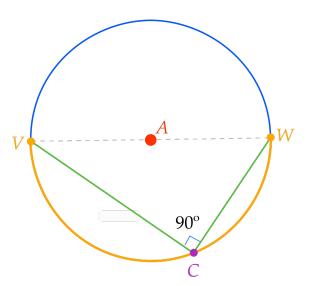
$$\angle VCW \cong \angle VDW$$



Inscribed Angle

An angle inscribed in a semicircle is a right angle.

 $\angle VCW$ is a right angle.



Inscribed Angle

Opposite angles of a quadrilateral inscribed in a circle are supplementary.

> $\angle W$ and $\angle Y$ are supplementary $\angle X$ and $\angle Z$ are supplementary

