Section 8.3
Properties of Angles in a Circle


1) Name 2 chords $C B, C A$
2) Name 2 angles
$\angle A O B \quad \angle O A B$
Ccentral angle
3) Name 2 radii $\angle A C B$ $\angle C B O$
AD OB
4) Name 2 arcs

## Terms/Properties to know:

Arc- a section of the circumference of a circle is an arc.


Central Angle-- the angle formed by joining the endpoints of an arc to the center of the circle

Inscribed Angle--The angle formed by joining the endpoints of an arc to a point on the circle


The inscribed and central angles are subtended by arc $A B$

## Central Angle and Inscribed Angle Property

In a circle, the measure of a central angle subtended by an arc is twice the measure of the inscribed angle subtended by the same arc.
$<P O Q=2$ times $<P R Q$


## THIS IS TRUE FOR ANY INSCRIBED ANGLE <br> [The inscribed angle is half the size of the central angle

