M9 - 10.2 - Circles/Inscribed/Central Angles/Arc/Chords Notes

O : Centre of Circle

Centre
O Radius

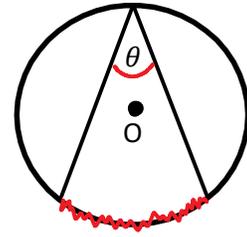Chord

Arc
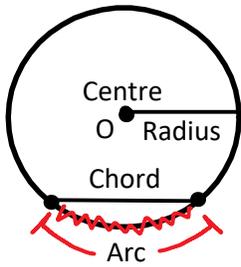
Chord: Edge to Edge

$C \angle$
Central Angle
O
θ
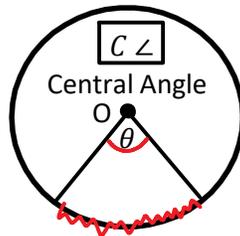
Central $\angle$: on the Centre

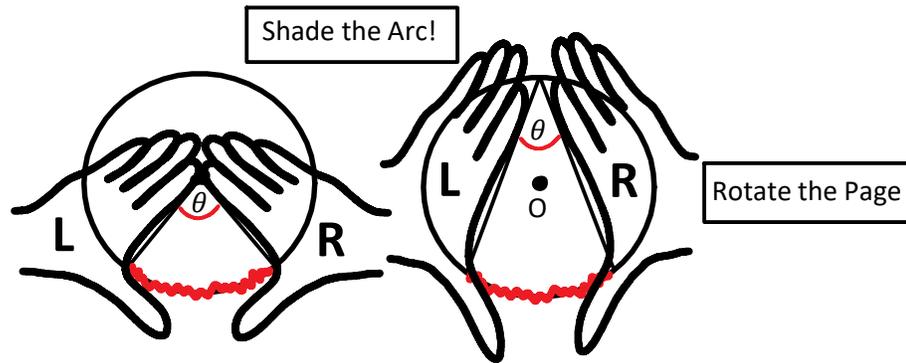$\angle$: Angle

θ is a Greek symbols for an Angle

Inscribed Angle $I \angle$

θ
O

Inscribed $\angle$: on the Edge
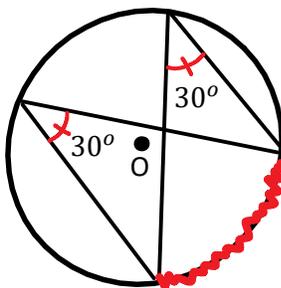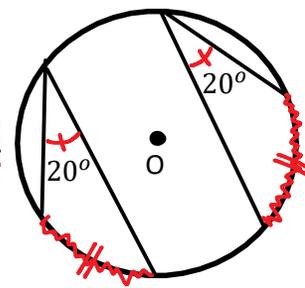
1. Make a Slice of Pie with your Left and Right Hand.
2. Central/Inscribed Angle is between your Index Fingers.
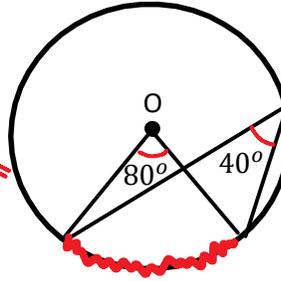3. Arc is crust of piece of pie.

Shade the Arc!

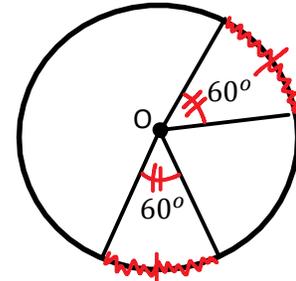θ
L R

θ
L O R

Rotate the Page

$I \angle = I \angle$

30°
30° O

Inscribed Angles from Same/Equal Arc are Equal.

Equal Things

$I \angle = I \angle$

20°
20° O

Other Equal Things

$C \angle = 2 \times I \angle$

O
80° 40°

Central Angles are Twice Inscribed Angles from Same/Equal Arc.

$I\angle = \frac{1}{2} \times C \angle$ Inscribed Angles are Half Central Angles from Same/Equal Arc.

$C \angle = C\angle$

O 60°
60°

Central Angles from Equal Arc are Equal.

Circles Page 1