

## Understanding Circle Vocabulary

Carefully cut out the eight circles given to your group.

Task One - Separate the circles into two categories: Circles with **Central Angles** and Circles without Central Angles.

Identify which of the following are central angles:

$\angle AOD$   $\angle DOB$   $\angle PAO$   $\angle AOB$   $\angle APR$   $\angle ASW$   $\angle SAO$   $\angle AQW$   $\angle DVT$

Task Two – Separate the circles into two categories: Circles with **Inscribed Angles** and Circles without Inscribed Angles.

Identify which of the following are inscribed angles:

$\angle AOD$   $\angle DOB$   $\angle PAO$   $\angle AOB$   $\angle APR$   $\angle ASW$   $\angle SAO$   $\angle AQW$   $\angle DVT$

Task Three – Separate the circles into two categories: Circles with **Circumscribed Angles** and Circles without Circumscribed Angles.

Identify which of the following are circumscribed angles:

$\angle AOD$   $\angle DOB$   $\angle PAO$   $\angle AOB$   $\angle APR$   $\angle ASW$   $\angle SAO$   $\angle AQW$   $\angle DVT$

Task Four- Separate the circles into three categories: Circles with **Minor Arcs** darkened, Circles with **Major Arcs** darkened and Circles with neither.

Minor Arcs can be named with two letters of the endpoints. Major arcs require three letters to make it clear which arc you mean – the first and last letters are the endpoints and the middle letter is any other point on the arc.

Identify which of the following are arcs you found:  $\widehat{AD}$   $\widehat{BAD}$   $\widehat{ABD}$   $\widehat{AP}$   $\widehat{APR}$   $\widehat{AW}$   $\widehat{APW}$   $\widehat{DT}$   $\widehat{DVT}$

A **semicircle** is an arc whose endpoints are endpoints of the diameter. We use three letters to name a semicircle. What is a name for the semicircle on one of the circles from the activity?

Use the idea of a semicircle to help you define a minor arc and a major arc of a circle.