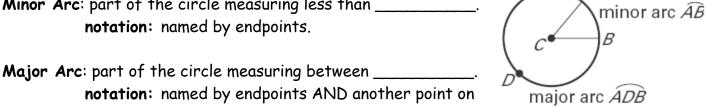
Geometry Notes

10.2 Find Arc Measures

Vocabulary:

Central Angle: an angle whose vertex is the _____ of the circle.

Minor Arc: part of the circle measuring less than _____.

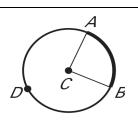


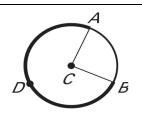
the arc.

Semicircle: an arc with endpoints formed by a _____ notation: named by endpoints AND another point on the arc.

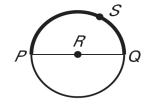
Name the arc shown in bold.

1.





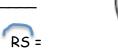
3.



Measuring Arcs

Note: The **measure** of an arc is not the same as the **length** of an arc.

Measure of an entire circle = _____ Measure of a semicircle = ____

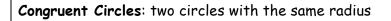


The Measure of a Minor Arc is the measure of its central angle.

The Measure of a Major Arc is the difference between 360° and the measure of the related minor arc. RTS =

Arc Addition: The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs. (Adjacent arcs share a common endpoint.)

Measure of ABC = +

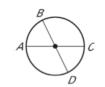


Congruent Arcs: two arcs with the same measure and they are arcs of the same circle or of congruent circles

Decide if $AB \cong CD$. Explain.







7. In \odot 0, \overline{MQ} and \overline{NR} are diameters. Find the indicated measure.



$$m\widehat{QN}$$

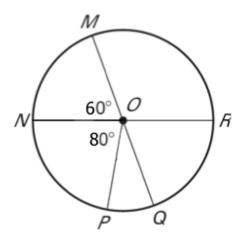
$$\widehat{mMPQ}$$

$$\widehat{mMQN}$$

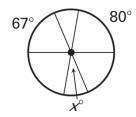
$$m\widehat{QR}$$

$$\widehat{mPR}$$

$$\widehat{mPMQ}$$



8. Find the value of x.



9. Find the value of x.

