LEARNING AS ONE NATION
Expanded Project

Math 10_27

JHS LEARNING ACTIVITY

Name: _____ **Grade/Score:** _____
Grade and Section: _____ **Date:** _____
Subject *(Check or choose from below.)*

- ☐ Religion/Values Education
- ☐ Natural Sciences
- ☐ Araling Panlipunan
- ☐ Filipino
- ☐ English
- ☐ Math
- ☐ TLE / ICT
- ☐ MAPEH
- ☐ HGP _____

Type of Activity *(Check or choose from below.)*_____

- ☐ Concept Notes
- ☐ Skills: Exercise / Drill
- ☐ Performance Task
- ☐ Illustration
- ☐ Formal Theme
- ☐ Informal Theme
- ☐ Others: _____

Activity Title: Arcs of a Circle: Major Arc

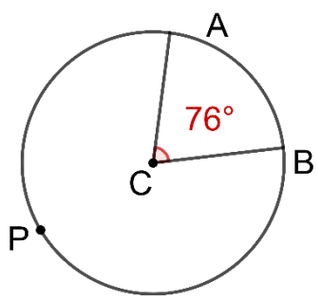
Learning Target: To find the degree measure of a major arc of a circle.

References: *(Author, Title, Pages)*
C.R. Hirsch, et.al., Geometry, pp. 400-401
R. Cruel, CVIF Learning Activities

Definition: Degree Measure of a Major Arc

The degree measure of a major arc is 360 minus the measure of the corresponding minor arc.

Example:



minor arc : $m\widehat{AB}$

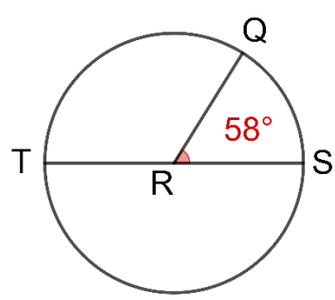
major arc : $m\widehat{APB} = 360 - m\widehat{AB}$

$m\widehat{APB} = 360 - 76$

$m\widehat{APB} = 284$

Remember: To avoid confusion, we will always use three letters for three points to name a major arc. A minor arc will be named with two letters for two points.

Exercises: Consider the diagram. Answer the following.



$\widehat{TQS}$ is a semicircle or half of a circle.

1) $m\widehat{TQ}$ = _____
2) $m\widehat{QS}$ = _____
3) $m\widehat{TQS}$ = _____
4) $m\angle SRQ$ = _____
5) What happens if you connect the major arc and the minor arc of the circle?