LEARNING AS ONE NATION
Expanded Project

Math 10_26

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: _____

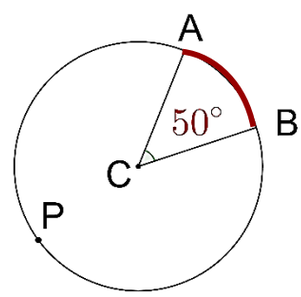
Activity Title: Arcs of a Circle: Minor Arc

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

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

Definition: Central Angle

A central angle of a circle is an angle that lies in the plane of the circle and whose vertex is the center of the circle.



Example: In the diagram where C is the center of the circle, $\angle ACB$ is a central angle.

Definition: Minor Arc

A **minor arc** of a circle is the **set of points on the circle** that lie in the interior of a central angle.

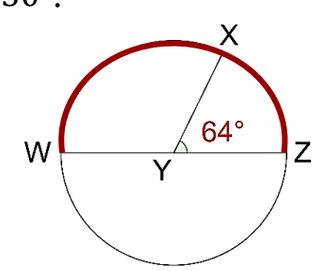
Example: In the diagram, $\widehat{AB}$ is a minor arc.

Definition: Degree Measure of a Minor Arc

The degree measure of a minor arc is the measure of its central angle.

Example: In the diagram above, the measures are:

central angle : $m\angle ACB = 50°$
minor arc: $m\widehat{AB} = 50°$
Thus, $m\angle ACB = m\widehat{AB} = 50°$.



Exercises: Consider the diagram. Answer the following. Give:

1) Two (2) central angles ∠ ____, ∠ _____
2) Two minor arcs _____ , _____
3) $m\widehat{XZ}$=_____
4) $m\widehat{WX}$ =_____
5) $m\angle WYX$ =_____

In the diagram above, $\widehat{WXZ}$ is a semicircle or half of a circle