

GEOMETRY LESSON 11-2

Central Angle: An angle whose vertex is the center of the circle and whose sides intersect the circle.

Arcs: A set of points along a circle defined by a central angle.

Minor Arc: A part of a circle in the interior of a central angle that measures less than 180° .

Major Arc: A part of a circle in the exterior of a central angle that measures more than 180° .

Semicircle: An arc whose endpoints lie on a diameter of a circle.

Arc Measures:

- a. **Minor arc** – The degree measure of the central angle.
- b. **Major arc** – 360 minus the degree measure of the central angle.
- c. **Diameter** - 180° .

Postulate 11-1: The sum of the measures of two adjacent arcs is the measure of the arc formed by the adjacent arcs.

Theorem 11-3: In a circle or congruent circles, two minor arcs are congruent if and only if their corresponding central angles are congruent.