What is a circle?

A circle is the set of all points in a plane that are at a given distance from what is called the center or origin.

\*360 degrees

Diameter

A line segment that connects two points on the circle and goes through the center of the circle

Area

Radius

The distance from the center of the circle to any point on the circle.

* It is half the length of the diameter
* It has the symbol of lower-case **r.**

Chord

a segment whose endpoint are on the circle

Sector

A region contained by two radii(radius) and an arc

Central angle

An angle whose vertex is the center of the circle

Circumference

The total distance around the outside of a circle

* It is also called the perimeter of a circle
* It has the symbol of an uppercase C.

Secant

tangent

Arc

The part of the circle connecting two points of the circle

Types of arcs:

* Major arc
  + More than 180 degrees
  + The name uses 3 letters
* Minor arc
  + Less than 180 degrees
  + The name uses 2 letters
* Semicircle
* An arc that equals 180 degrees

\*180 degrees

Arc measure

Arc length

Radians and degrees

Radians and arc length

Area of a sector