|  |  |  |  |
| --- | --- | --- | --- |
| a shape with all points the same distance from its center    a half of a circle or of its circumference. | | the point which is equidistant from all points on the circle | |
| any straight line segment that passes through the center of the circle and whose endpoints lie on the circle | | any straight line segment whose endpoints lie on the center and the circle | |
| line segment whose endpoints both lie on the circle | | a straight line that cuts a curve in two or more parts.  https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcQH0scWu2j_5LqzU7l14wOPnb0cGLkr4nPAdoUj4SDy5Ht0LakcoQ | |
| a line in the plane of the circle that intersects the circle in exactly one point | | -the portion of a disk enclosed by two radii and an arc  -similar to “pizza slices” of a circle  -Ex: Semicircle, Quarter circle  https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcRuRMCAZbYmy9znSoyR9HXc_5qBRiXDmDaDu5BhMizrTFL1zIyIaw | |
| Center  of a  Circle |  |  | Geometry  by Sharrer  Circles  p1/4  Circle  &  Semicircle |
| Radius  of a  Circle |  |  | Diameter  of a  Circle |
| Secant  of a  Circle |  |  | Chord  of a  Circle |
| Sector  of a  Circle |  |  | Tangent to a  Circle |
| the linear distance around the edge of a closed curve or circular object. | | the amount of space occupied by a circle  http://www.mathwarehouse.com/geometry/circle/images/area/circles-area2.png | |
| two circles with the same  radii , diameter, or circumference | | the amount of space occupied by a sector of a circle  https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcQ1g5K1aJtZ-ZVqGngxk5Wc-ZOhvyEEJgodJ1itrR5RoCu1OoB6 | |
| * The central angles that create them are * Their arcs are * They are the same distance from the center | | a line in the plane of the circle that intersects the circle in exactly one point    the point where a circle and a tangent intersect | |
| circles that all have the same center | | Then the line is perpendicular to the radius at the point of tangency | |
| Area  of a  Circle  ACircle = ? |  |  | Geometry  by Sharrer  Circles  p2/4  Circumference of a Circle  C = ? |
| Area  of a  Sector  ASector = ? |  |  | **Circles** are  when… |
| Tangent to a  Circle  &  Point of tangency  of a  Circle |  |  | **Chords**  are  when… |
| If a line is tangent to a circle  then… |  |  | Concentric Circles |
| The distance along the arc (part of the circumference of a circle)    = the ratio x Circumference | | the measure of an arc’s central angle | |
| Arcs next to each other on the circumference of a circle | | The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs | |
| these are equal if they have the same angle measure | | : the smaller of the two arcs formed when a circle is ÷ into 2 unequal parts.    : the larger of the two arcs formed when a circle is ÷ into 2 unequal parts. | |
| an angle formed by two chords with the vertex on the circle | | an angle formed by two radii with the vertex on the center | |
| Arc Measure  of a  Circle |  |  | Geometry  by Sharrer  Circles  p3/4  Arc Length  (Def & Formula)  of a  Circle |
| Arc Addition Postulate  of a  Circle |  |  | Adjacent Arcs  of a  Circle |
| Minor Arc  &  Major Arc  of a  Circle |  |  | **Arcs**  are  when… |
| Central Angle |  |  | Inscribed Angle |
| when the angle vertex is on the circle:  Angle= ½(Arc Measure) | |  | |
| when the angle vertex is on the circle:  Angle = ½(Arc Measure) | | (whole) x outside = (whole) x outside | |
| http://www.msdgeometry.com/joomla/images/stories/angles%20of%20tangents%20secants.jpg  Angle= ½(big arc-small arc) | | (whole) x outside = (whole) x outside | |
|  | | (whole) x outside = (whole) x outside | |
| ? |  |  | Geometry  by Sharrer  Circles  p4/4  ? |
| ? |  |  | ? |
| ? |  |  | =?  =?  =? |
|  |  |  | ? |