Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_

**Topic:** Circles: Vocabulary & Central Angles **Class Website**: msgiwa1.weebly.com

|  |  |  |
| --- | --- | --- |
| **Part** | **Description** | **Image** |
| **Circle** | The set of all points that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from a reference point, the \_\_\_\_\_\_\_\_\_. The set of points forms a 2-dimensional curve that measures \_\_\_. |  |
| **Chord** | A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ whose \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ lie on the circumference of the circle. |  |
| **Diameter** | A straight line passing through the \_\_\_\_\_\_\_ of a circle connecting two points on the circle; equal to \_\_\_\_\_\_\_\_ the radius. |  |
| **Radius** | The distance from the \_\_\_\_\_\_\_ to a \_\_\_\_\_\_ on the circle; equation to \_\_\_\_\_ the diameter. |  |
| **Secant** | A line that intersects a circle at \_\_\_\_\_ points. |  |
| **Tangent Line** | A line that intersects a circle at exactly \_\_\_\_\_ point and is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the radius of the circle. |  |
| **Point of Tangency** | Where the tangent line \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the circle. |  |

|  |  |  |
| --- | --- | --- |
| **Major Arc** | **Semicircle** | **Minor Arc** |
|  |  |  |
| An \_\_\_\_\_\_\_ that is \_\_\_\_\_\_ of a circle. | Part of a circle’s circumference that is \_\_\_\_\_\_\_ than its semicircle. | Part of a circle’s circumference that is \_\_\_\_\_\_\_ than its semicircle. |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Central Angles** | An angle with its \_\_\_\_\_\_\_\_\_ at the \_\_\_\_\_\_\_\_\_\_ of a circle. |  |
| **ANGLE = ARC** |

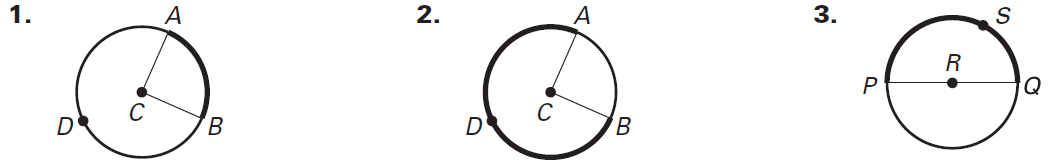
|  |
| --- |
| **THINGS TO KNOW AND REMEMBER ALWAYS!** |
| * A circle has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. * A semicircle has \_\_\_\_\_\_\_\_\_\_\_\_. * Vertical Angles are \_\_\_\_\_\_\_\_\_\_. * Linear Pairs are \_\_\_\_\_\_\_\_\_\_\_\_\_. |

|  |  |
| --- | --- |
| **Arc Addition Postulate** | **Congruent Arcs** |
|  |  |
|  | Two arces that have the same \_\_\_\_\_\_ measurement and are either of the same circle or two congruent circles. |

**Examples**

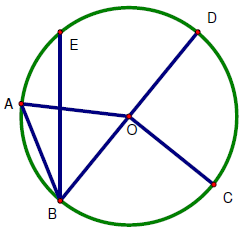
|  |  |
| --- | --- |
|  |  |

**Name the arc shown in bold and classify it (minor, major, or semi).**



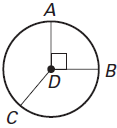
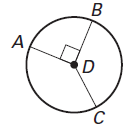
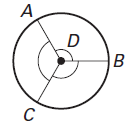
**\_\_\_\_\_\_\_\_\_\_\_ arc. \_\_\_\_\_\_\_\_\_\_\_ arc. \_\_\_\_\_\_\_\_\_\_\_ arc.**

**4. Identify and name each of the following frm 🖸O. Be sure to use the correct notation.**



1. Two different central angles: \_\_\_\_\_, \_\_\_\_\_
2. Three different minor arcs: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
3. Three different major arcs: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
4. A semicircle: \_\_\_\_\_
5. Two different chords: \_\_\_\_\_, \_\_\_\_\_
6. The central angle subtended by : \_\_\_\_\_

5. = \_\_\_\_\_ 6. = \_\_\_\_\_ 7. = \_\_\_\_\_



8. = \_\_\_\_\_ 9. = \_\_\_\_\_, = \_\_\_\_\_ 10. = \_\_\_\_\_, = \_\_\_\_\_

