Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Circle Guided Notes

|  |  |
| --- | --- |
| Image result for parts of a circle | Image result for circle formulas |

A **circle** is a set of point or locus of point which are at fixed distance from a point called as center.

Distance of any point on the circumference of the circle from the center of the circle is **equal.**

**Diameter** is double of the radius and is the chord which passes through the center of the circle.

**Tangent** is a line which touch the circle at only one point at its circumference.

**Secant is a** line which touch the circle at two distinct points.

**Chord** is a line Segment which lie inside the circle and its end points are always lie on the circle.

1. Find the Area of Each

|  |  |  |
| --- | --- | --- |
| 1. | 2. | 3. A circle with a radius of 12 ft. |

1. Find the Circumference of Each

|  |  |  |
| --- | --- | --- |
| 1. The circumference of a circle with a diameter of 15 *cm*. | 2. The circumference of a circle with a radius of 320 *cm*. | 3. |

1. All together

|  |  |  |
| --- | --- | --- |
| 1). The radius of a circle is 5 inches. Find the following  a) diameter    b) circumference  c) area | 2) **The diameter of a circular rug is 5.6 feet. Find the following**  **a) Radius**  **b) Circumference**  **c) Radius** | 3.) The circumference of a quarter is 24 mm. Find the following.  a) Radius  b) Diameter  c) Area |

**The radius, diameter, or circumference of a circle is given. Find the missing measures. Show your work**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Radius | Diameter | circumference | Area |
|  | 10inch |  |  |  |
|  |  | 10 |  |  |
|  |  |  | 76.4 |  |
| 4. | 10.4 |  |  |  |
| 5. |  |  | 314 |  |
| 6. |  | 1 |  |  |