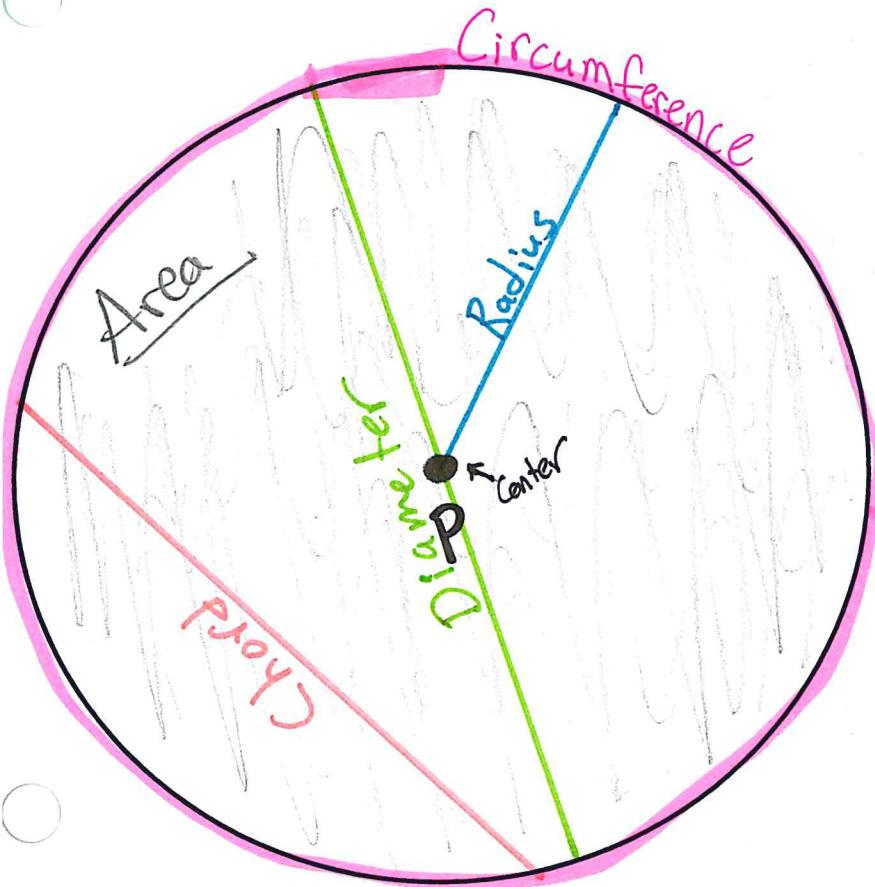


Parts of a Circle

Using a ruler, pencil and highlighter, draw an example of the following parts of a circle and write the definition for each term.



Reflection:

1.) How is a circle different from other shapes?

Named w/ 1 dot, no sides / corners.

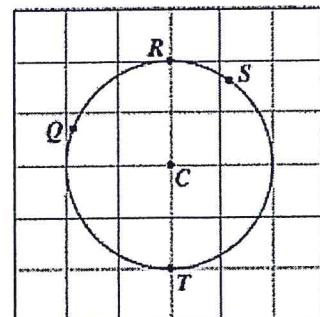
2.) Use the letters on the figure to the right to name:

a.) The circle: O

b.) A line segment that is a radius: CS, CR, CQ, CT

c.) A line segment that is a chord: QS, QT, QR, RS, ST

d.) A line segment that is a diameter: RT



3.) Compare diameter and chord. How are they the same? How are they different?

Both go edge to edge, but diameter is the only one that crosses the center point.

Radius: From center to edge of circle.
 $r = \frac{d}{2}$

Diameter: From edge to edge, through the center.
 $d = 2 \cdot r$

Center: The middle dot. Name of the circle. OP

Chord: From edge to edge, not through the center.

Circumference: Distance around the outside of the circle.

$$C = 2\pi r \quad l = \pi d$$

Area: Space inside of a circle.

$$A = \pi r^2$$

① Find the circumference of a circle with a radius of 6. Round to the nearest hundredth. $C = 2\pi r$ | $C = \pi d$
 $C = 2\pi(6)$

$$C = 12\pi$$

$C \approx 37.7$

② Find the area of a circle with a diameter of 14. Leave your answers in terms of pi. $A = \pi r^2$

$$d = 14$$
$$\frac{1}{2} d$$
$$r = 7$$

$$A = \pi(7)^2$$
$$A = \pi \cdot 49$$

$A = 49\pi$