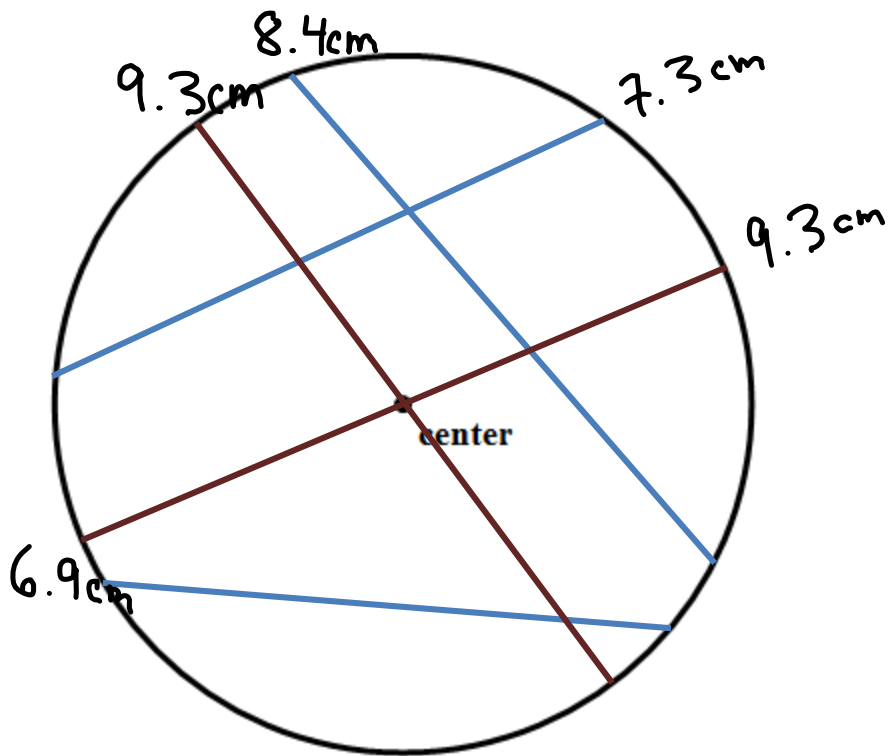


4.1 Investigating Circles



Step 1: Draw two points on the circle. Use a ruler to draw a line segment that joins the two points.

Step 2: Measure the line segment. Label the line segment with its length.

Step 3: Draw and measure other segments that join two points on the circle.

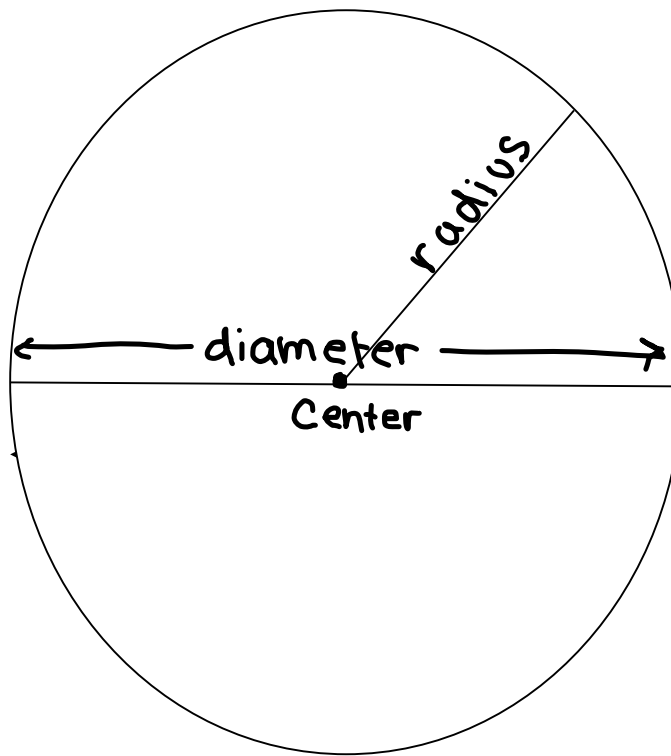
Step 4: Find the longest segment in the circle.

Step 5: How many other segments can you draw with the longest length?

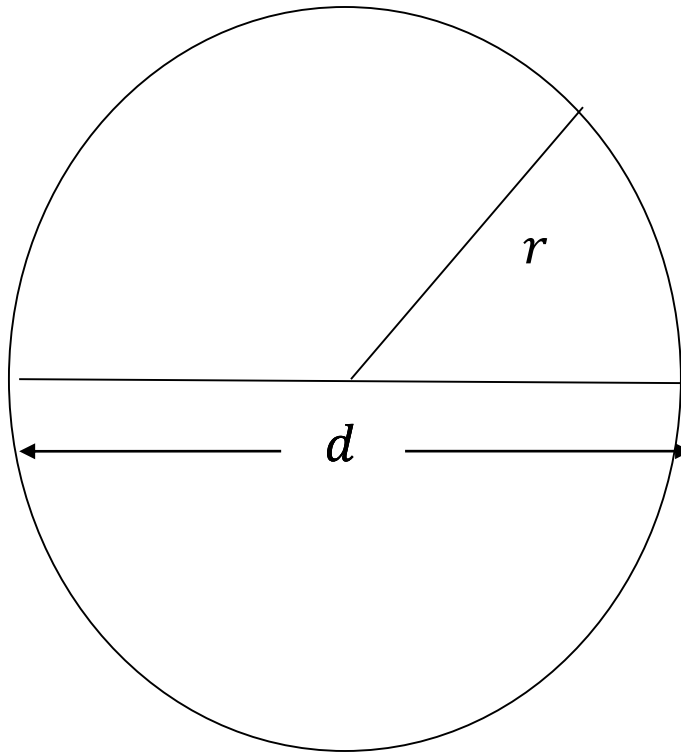
there is an infinite amount.

Circle Song

It has a radius from center to rim. It's diameter a line that goes from side to side while passing through the Center. πr^2 sounds like area to me. When I need a Circumference I just use πd .



- The longest line segment in any circle is the diameter of the circle.
- The diameter passes through the Center of the circle.
- The radius is half the length of the diameter.
- The diameter is double the length of the radius.



Let r represent the radius, and d the diameter.

Then the relationship between the radius and diameter of a circle is:

$$r = d \div 2$$

$$r = \frac{d}{2} \} \text{diameter divided by 2.}$$

$$d = \underbrace{2r}_{\text{means 2 times the radius}}$$