$\qquad$
1.3.1 Are angles always measured in degrees?


| \#103 What is a Radian (a/b done with partner) |  |
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| c.Count the number of radius <br> lengths it takes to get all of the way <br> around your circle. Did it come out <br> to be an exact whole number? <br> Compare the number of radius <br> lengths you got with the number <br> your team members got. Are their <br> numbers consistent with yours? <br> Why does this make sense? | d.Place your circular object on a sheet of paper and <br> trace around it. Carefully mark the center $(O)$ of the <br> circle on your paper. Place the circumference tape <br> back on the circular object. Transfer the radius marks <br> onto the traced circle. Label the position for the start <br> of the tape as $A$ and the first radius mark as $B$. Draw <br> the segments $O A$ and $O B$. |

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1.3.1 Are angles always measured in degrees?

\#104 Look again at the circle you traced on your paper. Let the radius of this circle equal 1 unit. (A circle with a radius of 1 unit is called a unit circle.) Answer the following in complete sentences.

| a.What is the exact circumference of the <br> circle? | b.How many degrees did you go around the <br> circle in order to mark off $2 \pi$ radius lengths <br> (radians) on your paper? Do not forget the <br> units. |
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