

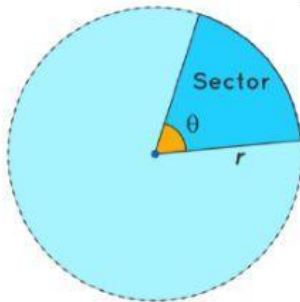
NAME

QUARTER

GRADE &amp; SECTION

DATE

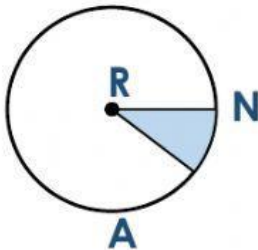
### Activity: Area of a Sector



$$\text{sector area} = \frac{\text{arc measure}}{360^\circ} \cdot r^2 \pi$$

1. Study the given to complete the set up for the solution then find the measure of the unknown.

1. Suppose in  $\odot R$  that  $m\widehat{AN} = 45^\circ$  and the radius is  $12m$ . What is the area of sector NRA? (round off the answer up to 2 decimal places)



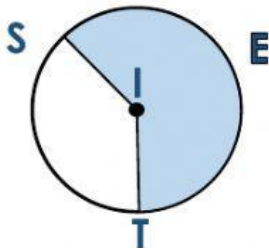
Set-up:

$$\boxed{\phantom{000}} = \frac{\boxed{\phantom{000}}}{360^\circ} \cdot \boxed{\phantom{000}}^2 \pi$$

Therefore...

$$\boxed{\phantom{000000}} = \boxed{\phantom{000}} \boxed{\phantom{000}}$$

2. Suppose in  $\odot I$  that  $m\widehat{SET} = 195^\circ$  and the area of sector SIT is  $333.53in^2$ . What is the radius of  $\odot I$ ?



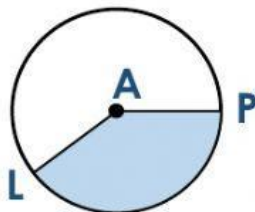
Set-up:

$$\boxed{\phantom{000}} = \frac{\boxed{\phantom{000}}}{360^\circ} \cdot \boxed{\phantom{000}}^2 \pi$$

Therefore...

$$\boxed{\phantom{000000}} = \boxed{\phantom{000}} \boxed{\phantom{000}}$$

3. If the area of sector PAL is  $142.55ft^2$ , and the radius  $PA = 11ft$ . Find the  $m\widehat{PL}$  in degrees.



Set-up:

$$\boxed{\phantom{000}} = \frac{\boxed{\phantom{000}}}{360^\circ} \cdot \boxed{\phantom{000}}^2 \pi$$

Therefore...

$$\boxed{\phantom{000000}} = \boxed{\phantom{000}} \boxed{\phantom{000}}$$

How many attempts? \_\_\_\_.  
How well did you do?



Need help!



Just OK!



Splendid

I FEEL THAT...