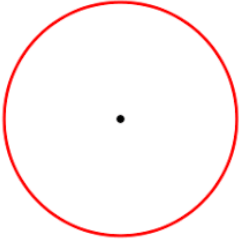
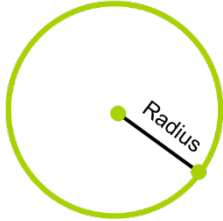
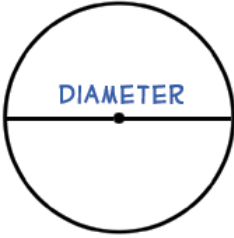
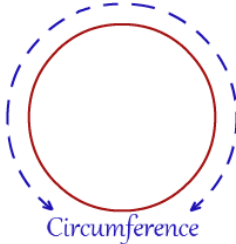



Parts of a Circle

TERM	PICTURE	DEFINITION
CIRCLE		<p>A set of points that are an equal distance (equidistant) from another given point, called the center.</p>
RADIUS		<p>The distance from the center to the circumference of the circle.</p> <p style="text-align: center;">$r = \frac{1}{2} d$</p> <p style="text-align: center;"><i>The radius is equal to half the diameter.</i></p>
DIAMETER		<p>The distance across the circle. It goes through the center of a circle connecting two points on the circumference.</p> <p style="text-align: center;">$d = 2r$</p> <p style="text-align: center;"><i>The diameter is equal to double (2x) the radius.</i></p>
CIRCUMFERENCE		<p>The distance around the outside of the circle.</p> <p>Formula: $C = 2 \pi r$ or $C = \pi d$</p>
π	pi	<p>The ratio of a circle's circumference to its diameter.</p> <p>The symbol for pi is π π is an irrational number (It never ends and it never repeats.)</p> <p>π is approximately 3.141592654 (press the Pi button on your calculator).</p> 

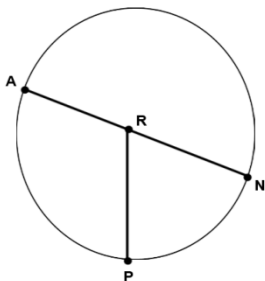
Examples:

1.) Calculate the following;

Given...	Find...	Answer
Radius (r) = 10 in	The diameter (d)	$d = \underline{\hspace{2cm}}$ in
Diameter (d) = 6.4 in	The radius (r)	$r = \underline{\hspace{2cm}}$ in
Radius (r) = 12.3 in	The diameter (d)	$d = \underline{\hspace{2cm}}$ in
Diameter (d) = 1 in	The radius (r)	$r = \underline{\hspace{2cm}}$ in

2.) The radius RP is 6 inches.
What is the length of AN?

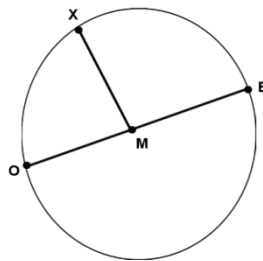
AN represents the _____.



AN = _____

3.) The diameter of OB is 14 cm.
Find the length of XM.

XM represents the _____.



XM = _____

Try It!

1.) Calculate the following:

a.) Given: radius (r) = 8 inches, find the diameter (d) $d = \underline{\hspace{2cm}}$ in.

b.) Given: diameter (d) = 14.6 inches, find the radius (r) $r = \underline{\hspace{2cm}}$ in.

c.) Given: radius (r) = 6.5 inches, find the diameter (d) $d = \underline{\hspace{2cm}}$ in.

d.) Given: diameter (d) = 11 inches, find the radius (r) $r = \underline{\hspace{2cm}}$ in.

e.) Given: radius (r) = 9 inches, find the diameter (d) $d = \underline{\hspace{2cm}}$ in.

2.) The diameter of Lexa's hula hoop is 36 inches. What is the radius of Lexa's hula hoop?

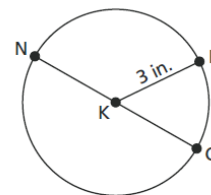
- A** 6 in. **B** 9 in. **C** 18 in. **D** 72 in.

3.) A duck swims from the edge of a circular pond to a fountain in the center of the pond. What term describes the duck's path? **Draw it out.**

- A** chord **C** diameter
B radius **D** central angle

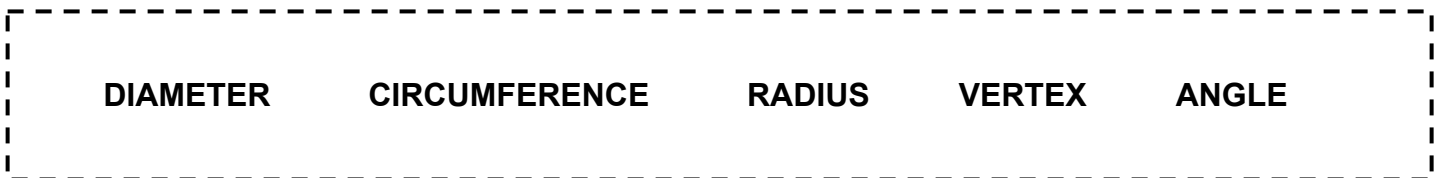
4.) The radius KP is 3 inches. What is the length of NQ ?

- A** 3 inches **B** 4 inches
C 6 inches **D** 9 inches



[not drawn to scale]

#5-9 Fill in the questions below using the word bank and Circle B.



5.) The _____ is the distance around the outer edge of a circle, the perimeter.

6.) \overline{BF} is a _____ in circle B.

7.) $\angle CBD$ is an _____ whose _____ is at point B.

8.) The distance across the circle through the center is the _____

9.) \overline{AG} is the diameter in circle B. **True or False**

