Name:	Key			
7R	,	*	1	

Auster

Date: \_\_\_\_\_\_Classwork 11.1

# Parts of a Circle

TERM	PICTURE	DEFINITION		
CIRCLE		A set of points that are equidistant from another given point, called the center.		
RADIUS		The distance from the <u>center</u> to the <u>outside</u> of the circle. $ r = \frac{1}{2} d $ The radius is equal to half the diameter.		
DIAMETER	DIAMETER	The distance <u>around</u> the circle. It goes through the <u>center</u> of a circle connecting two points on the <u>outside</u> . $d = 2r$ The diameter is equal to double (2x) the radius.		
CIRCUMFERENCE	Circumference	The distance around the <u>outside</u> of the circle.  Formula: $C = 2\pi r$ or $C = \pi d$		
de Louin. Tanta	uneter (d)	The <u>ratio</u> of a circle's circumference to its diameter.  The symbol for pi is $\pi$ $\pi$ is an <u>irrational</u> number.		
d = 172 n.	(b) mas	π is approximately 3.14 sife or built 2 (7) robust in the		

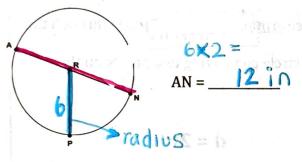
## **Examples:**

#### 1) Calculate the following;

Given	Find	Answer
Radius (r) = 10 in $\times 2$	The diameter (d)	<b>d</b> = <u>20</u> in
Diameter (d) =6.4 in 2	The radius (r)	r=3.2in
Radius (r) = 12.3 in $\times$ 2	The diameter (d)	$d = \frac{24.60}{100}$
Diameter (d) = 1 in $\frac{1}{2}$	The radius (r)	r = 0.5 in

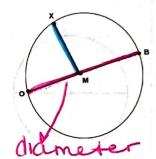
### 2) The radius RP is 6 inches. What is the length of AN?

AN represents the Ulam



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

XM represents the <u>radius</u>



# Try It!

#### *Calculate the following:* 1)

- a.
- Given: radius (r) = 8 inches, find the diameter (d)
- Given: diameter (d) = 14.6 inches, find the radius (r) b.
- Given: radius (r) = 6.5 inches, find the diameter (d)m X2 tel loderas de
- Given: diameter (d) = 11 inches, find the radius (r) d.
- Given: radius (r) = 9 inches, find the diameter (d)e. X2

- $d = \frac{16}{100}$  in.
- $r = \frac{7.3}{10.0}$  in.
- $d = \frac{13}{13}$  in.
- r = 5.5in.
- $d = \frac{18}{18}$  in.

