

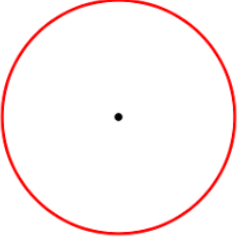

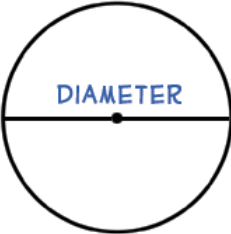
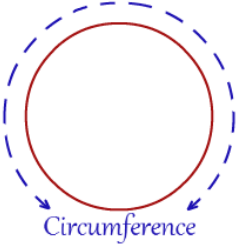

Name: _____

Date: _____

7R

Classwork 11.1

Parts of a Circle

TERM	PICTURE	DEFINITION
CIRCLE		<p>A set of points that are <u>equidistant</u> from another given point, called the <u>center</u>.</p>
RADIUS		<p>The distance from the <u>center</u> to the <u>outside</u> 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 <u>around</u> the circle. It goes through the <u>center</u> of a circle connecting two points on the <u>outside</u>.</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 <u>around</u> the <u>outside</u> of the circle.</p> <p>Formula: $C = 2 \pi r$ or $C = \pi d$</p>
<p style="text-align: center;">π</p>	<p style="text-align: center;">pi</p>	<p>The <u>ratio</u> of a circle's circumference to its diameter.</p> <p>The symbol for pi is π</p> <p>π is an <u>irrational</u> number.</p> <p>π is approximately <u>3.14</u></p> 

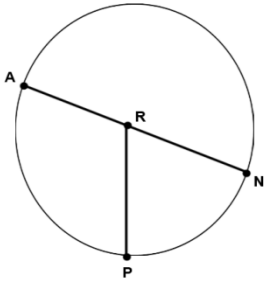
Examples:

1) Calculate the following;

Given...	Find...	Answer
Radius (r) = 10 in	The diameter (d)	d = _____ in
Diameter (d) = 6.4 in	The radius (r)	r = _____ in
Radius (r) = 12.3 in	The diameter (d)	d = _____ in
Diameter (d) = 1 in	The radius (r)	r = _____ in

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

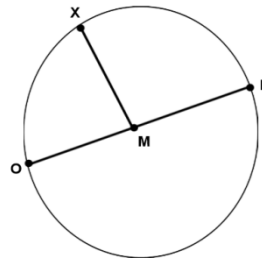
AN represents the _____.



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 = ____ in.

b. Given: diameter (d) = 14.6 inches, find the radius (r) r = ____ in.

c. Given: radius (r) = 6.5 inches, find the diameter (d) d = ____ in.

d. Given: diameter (d) = 11 inches, find the radius (r) r = ____ in.

e. Given: radius (r) = 9 inches, find the diameter (d) d = ____ in.

