Name:_____
Date:_____ Block:_____

What you need to know & be able to do	Examples	
Tangent Properties	1. Find the value of x if AB is tangent to Circle C. *B* 8 *A* 4 *x* *C*	2. Tell whether $\overline{AB}$ is tangent to ⊙C. Explain your reasoning. *A* 15 *B* 5 17 *C*
	3. Find the value of x. 2x + 13 *C* 4x − 8	4. Find the perimeter 10.5 23.2 11.2
Chord Properties	5. Solve for x. *A* (x + 63)° *C* *E* *B* *D* (3x + 1)°	6. Find arc MN. *R* 74° *M* *C* *P* *N*
	7. In ⊙O, MO = 8 and LN = 30. Find x. L M O x N	8. Solve for x. *Y* (35x − 16)° 31x° *Q* *Z* *X*
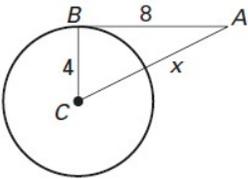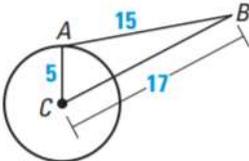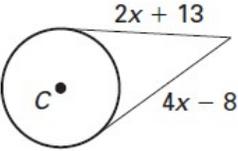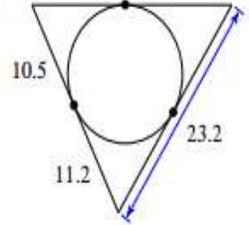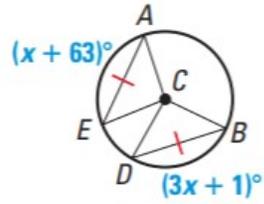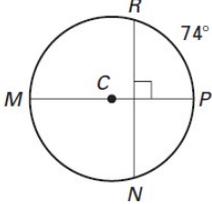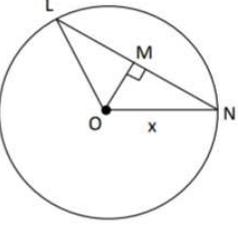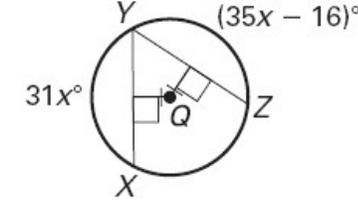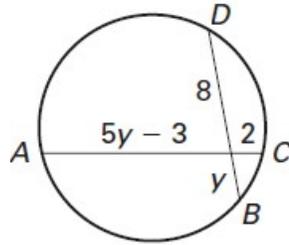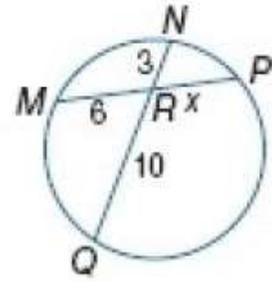
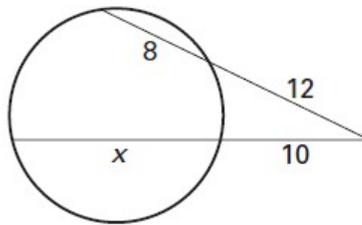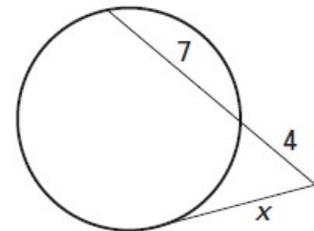|		
1. Find the length of segments if the segments are in the **inside** of the circle.	9. Find the length of $\overline{AC}$. D 8 5y – 3 2 C A y B	10. Find the value of x. N 3 P M 6 R x 10 Q
2. Find the length of segments if the segments are **outside** of the circle.	11. Find the value of x. 8 12 x 10	12. Find the value of x. 7 4 x
3. Find the circumference of circles.	13. Find the circumference of a circle with a radius of 8 ft. *Leave in terms of pi*	14. The circumference of a circle is 25 m. What is the diameter?
4. Find arc lengths.	7. Find the length of $\overset{\frown}{AB}$. *Leave in terms of pi* A 6 C • 125° B	8. Find the radius. 32.3 75° C