Name: _____

Date: _____

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

What you need to know & be able to do	Things to remember		
Find the measure of parts of a chord in a circle	part ∙ part = part • part	1. Find the value of x $ \begin{array}{c} 3 \\ 6 \\ $	2. Find the value of x $ \begin{array}{c} x\\ 6\\ x+4\\ 12\\ \end{array} $
Find the measure of segments when two secants intersect a circle.	outside • whole = outside • whole	3. Find the value of x	4. Find the value of x. $4 \underbrace{2x}_{3x+1}$
Find the measure of segments when a secant and a tangent intersect a circle.	outside • whole = outside • whole	5. Find the value of x. 5	6. Find the value of x. x 7 9
Use the properties of congruent tangents	Tangents coming from the same external point are congruent	7. Find JK. $J \xrightarrow{3x} \underbrace{\bullet}_{K}$ x + 12 M	8. Find JM. $J \underbrace{5x - 4}_{2x + 2} \underbrace{K}_{M}$
Use the properties of congruent chords to find the measures of chords and arcs.	If two chords are congruent then their arcs are congruent	9. Find the value of KM. $K \xrightarrow{Q} \xrightarrow{L} M$	10. Find the <i>mYZ</i> if $mXW = 95^{\circ}$. $X \xrightarrow{Q} Z$ W 105°

Geometry	Circle Segmen	ts and Volume Review Shee	t Circles (Segments)
Determine if two chords are congruent	Two chords are congruent if they are equidistant from the center of the circle	11. Are \overline{JK} and \overline{ML} congruent?	12. Are \overline{TQ} and \overline{UQ} congruent?
Use the properties of congruent chords to find the measure of arcs and segments	Two chords are congruent if and only if they are equidistant from the center of the circle.	13. Find the measure of YX. $31x^{\circ} \underbrace{7}_{Q} \underbrace{35x - 16}_{Q}^{\circ}_{Z}$	14. Find the measure of GF. $A \xrightarrow{12}_{G} \xrightarrow{B}_{Tx-8}_{F}$ $D \xrightarrow{E}_{12} \xrightarrow{3x}_{C}$
Determine if a chord is a diameter.	To be a diameter the chord must be a perpendicular bisector of another chord.	15. Is \overline{QS} a diameter? Why or why not?	16. Is \overline{QS} a diameter? Why or why not?
Use the properties of diameters and perpendicular chords.	Set up the problem so that you can use Pythagorean theorem.	17. Find AB	18. Find CD
Use properties of tangents to determine if the line is a tangent	You must satisfy the Pythagorean Theorem.	19. Is \overline{AB} a tangent? Why or why not?	20. Is \overline{AB} a tangent? Why or why not?
Use properties of tangents to find missing measures.	Pythagorean Theorem	21. Find the measure of x. B 80 C X 82	22. Find the value of x.