Name: $\qquad$ Date: $\qquad$
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 | Examples |  |
| :---: | :---: | :---: | :---: |
| Find the measure of parts of a chord in a circle | part • part = part • part | 1. Find the value of $x$ | 2. Find the value of $x$ |
| Find the measure of segments when two secants intersect a circle. | outside $\cdot$ whole $=$ outside • whole | 3. Find the value of $x$ | 4. Find the value of $x$. |
| Find the measure of segments when a secant and a tangent intersect a circle. | outside $\cdot$ whole $=$ outside • whole | 5. Find the value of $x$. | 6. Find the value of $x$. |
| Use the properties of congruent tangents | Tangents coming from the same external point are congruent | 7. Find JK. | 8. Find JM. |


| 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. | 10. Find the $m Y Z$ if $m X \bar{W}=95^{\circ}$. |
| :---: | :---: | :---: | :---: |
| Determine if two chords are congruent | Two chords are congruent if they are equidistant from the center of the circle | 11. Are $\overline{J K}$ and $\overline{M L}$ congruent? | 12. Are $\overline{T Q}$ and $\overline{U Q}$ 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 $Y X$. | 14. Find the measure of GF. |
| Determine if a chord is a diameter. | To be a diameter the chord must be a perpendicular bisector of another chord. | 15. Is $\overline{Q S}$ a diameter? Why or why not? | 16. Is $\overline{Q S}$ a diameter? Why or why not? |


| Use the <br> properties of <br> diameters and <br> perpendicular <br> chords to find <br> the radius of a <br> circle. | Set up the problem so <br> that you can use <br> Pythagorean theorem. | 17. A chord in a circle is 18 <br> cm long and is 5 cm from <br> the center of the circle. <br> How long is the radius of <br> the circle? | 18. The radius of a circle is <br> 15 inches. A chord is <br> drawn 4 inches from the <br> center of the circle. How <br> long is the chord? |
| :--- | :--- | :--- | :--- |
| Use properties <br> of tangents to <br> determine if the <br> line is a tangent | You must satisfy the <br> Pythagorean <br> Theorem. |  |  |

Find the volume
of spheres.
Find the volume
of pyramids and
cones.
of prisms
cylinders.

