Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Topic** | **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** |
|  |  | **3. Find the value of x.** | **4. Find the length of RT.** |
| Find the measure of segments when two secants intersect a circle. | outside • whole = outside • whole | **5. Find the value of x** | **6. Find the value of x.** |
|  |  | **7. Find the value of x.** | **8. Find the length of FE.** |
| Find the measure of segments when a secant and a tangent intersect a circle. | tan2 =  outside • whole | **9. Find the value of x.** | **10. Find the value of x.** |
|  |  | **11. Find the value of x.** | **12. Find the length of BC.** |
| Use the properties of congruent tangents | Tangents coming from the same external point are congruent | **13. Find JK.** | **14. 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 | **15. Find the value of KM.** | **16. Find the  if .** |
| Determine if a chord is a diameter. | To be a diameter the chord must be a perpendicular bisector of another chord. | **17. Is  a diameter? Why or why not?** | **18. Is  a diameter? Why or why not?** |
| Use properties of tangents to determine if the line is a tangent | You must satisfy the Pythagorean Theorem. | 19. Is  **a tangent? Why or why not?** | 20. Is  **a tangent? Why or why not?** |
| Use properties of tangents to find missing measures. | Pythagorean Theorem | 21. Find the measure of x. | 22. Find the value of x. |
| Find the volume of spheres. |  | 23. A beach ball has a diameter of 8 inches. Find its volume. | 24. Find the volume of the hemisphere. |
| Find the volume of prisms and cylinders. | V=Bh  (where B is the area of the base)  ARectangle= bh  ACircle= πr2  ATriangle= ½ bh  ATrapezoid = ½(b1+b2)h | 25. Find the volume.  4 m  2 m  10 m | 26. Find the volume. 12 in  http://etc.usf.edu/clipart/42200/42221/cylprism_42221_lg.gif  20 in |
| 27. Find the volume.      22cm  35cm 25cm      21 cm | 28. Find the volume.  http://preview.channel4learning.com/espresso/clipbank/images/students/learning_paths/lp_maths_prisms_ws3_3.jpg |
| Find the volume of pyramids and cones. | V = 1/3 Bh | 29. Find the volume.  http://www.clker.com/cliparts/b/T/d/V/N/B/cone-md.png  15 yd  15.8 yd  5 yd | 30. Find the volume.  http://etc.usf.edu/clipart/43200/43200/quad9_43200_lg.gif  44 in      30 in 28 in |