Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_ Period: \_\_\_\_\_\_ **Chapter 8 Group Test NOTES**

Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Make sure all group members show complete work AND have the EXACT same answers. One of the tests from your group will be selected at random & graded. Please circle your answers.**

For #1 – 2: FIND THE VOLUME OF THE SOLID. ROUND YOUR ANSWER TO THE NEAREST TENTH.

|  |  |
| --- | --- |
| 1. | 2. |

|  |  |
| --- | --- |
| 3. Find the height of the cylinder. Round your answer to the nearest tenth.  | 4. Find the radius of the cone. Round your  answer to the nearest tenth.   |

|  |
| --- |
| 5. A cylindrical swimming pool has a diameter of 18 feet and a height of 5 feet. About how many  gallons of water can the pool contain? Round your answer to the nearest whole number. (1 ft3 $≈$ 7.5 gal.) |

BACK 🡪

|  |
| --- |
| 6. Find the radius of a sphere with a volume of $\frac{512}{6}π$ cm3. |
| 7. You must answer a question before the sand in the timer falls to the bottom. The height of  the sand is 30 mm and the radius is 14 mm. The sand falls at a rate of 150 cubic millimeters per second. How much time do you have to answer the question?  |
| 8. (EXTRA CREDIT)  **Similar Test Question #18:** A spherical ball with a volume of 288$ π$ is  packaged in a box that is in the shape of a cube. The edge length of the box is equal to the  diameter of the ball. What is the volume of the box?   |