Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_

**Chapter 8 SBAC Volumes\_Classwork**

**Warm Up:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Solve for *r*: | | 2. Solve | 3. Solve | |
| **Shapes** | **\*\*\* When finding volume,3.14 \*\*\*** | | |
| **Cylinder**  Image result for cylinder | **p. 338 #12:** A cylindrical swimming pool has a diameter of 16 feet and a height of 4 feet. About how many gallons of water can the pool contain? Round your answer to the nearest whole number. ( | | |
| **Cone**  Image result for cone  or | **p. 345 #20 a:** You have 10 gallons of lemonade to sell ((. Each customer uses one paper cup. How many paper cups will you need if the paper cup is 6 cm in diameter and 11 cm in height? | | |
| **Sphere**  Image result for sphere  or | **p. 352 #13 modified:** A giant softball has a volume of cubic inches. Find the radius of the softball. | | |
| **Hemisphere**      **or** | **p. 352 #12 modified:** The globe of the Moon has a radius of 10 inches. Find the volume of the hemisphere. Round your answer to the nearest whole number. | | |
| **Pyramid**  Image result for pyramid prism  **or** | **p. 365 #13:** Find the volume of the composite solid. | | |

Determine whether the solids are similar.

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|  |  |
| **16**. A similar scale model of the motorcylce shown stands 4 inches high and is 6 inches long. How high does the actual motorcycle stand? Round to the nearest tenths if necessary. | |

HW: Chapter 6 Review, p. 279 #1 – 15 (do in BIM)