

Volume Word Problem Review

Name _____ Date _____ Pd. _____

Answer the following word problems. SHOW YOUR WORK and circle your answers.

1. Tina has an old fish tank in the shape of a circular cylinder. The tank is 2 feet in diameter and 6 feet high. How many cubic feet of water does it hold?
Round to the nearest cubic foot.



2. A rectangular cake pan is 13 centimeters by 21 centimeters by 5 centimeters. A round cake pan has a diameter of 21 centimeters and a height of 4 centimeters. Which cake pan holds (Volume) more batter?

3. Mount Rainier, a cone-shaped volcano in Washington, is about 4.4 kilometers tall and about 18 kilometers across its base. Find the volume of Mount Rainier.

4. The Transamerica Pyramid is the tallest skyscraper in San Francisco. The rectangular base had a length of 175 feet and a width of 120 feet. The height is 853 feet. Find the volume of the building.



5. Find the height of a rectangular prism with a length of 3 meters, width of 1.5 meters, and a volume of 60.3 cubic meters. **Draw and label** the prism; then find the **height**.

6. Cylinder A has a radius of 4 inches and a height of 2 inches. Cylinder B has a radius of 2 inches. What is the height of Cylinder B if both have the same volume? Hint: Find the Volume of Cylinder A. Use this Volume to find the height of Cylinder B.

7. Chenoa is making candles as gifts for her family. She is using the mold below. What is the volume of the candle wax, in cubic centimeters, the the mold holds?

