## 7th Grade Volume Assignment Questions

Volume is a measure of the amount of space occupied by a three-dimensional object. It is typically expressed in cubic units, such as cubic centimeters (cm³) or cubic meters (m³). Understanding volume is crucial in various fields, including engineering, architecture, and everyday life applications like cooking or storage planning.

everyday life applications like cooking or storage planning. Fill in the Blank: Fill in the blank with the correct words. 1. The volume of a rectangular prism is calculated by multiplying its \_\_\_\_\_\_\_, \_\_\_\_\_\_, and \_\_\_\_\_\_. 2. The formula for the volume of a cylinder is \_\_\_\_\_ × \_\_\_\_ × 3. The unit of volume is always expressed in units. 4. To find the volume of an irregular object, you can use the method. 5. The volume of a sphere is calculated using the formula  $\_\_\_ \times \pi \times$ Word bank: length, width, height, radius, cubic, displacement, base area, (4/3), r<sup>3</sup> **Multiple Choice Questions**: Choose the correct answer from the choices for each question. 1. What is the volume of a cube with a side length of 5 cm? a) 25 cm<sup>3</sup> b) 75 cm<sup>3</sup> c) 125 cm<sup>3</sup> d) 625 cm<sup>3</sup> 2. Which of the following is NOT a unit of volume? a) cm<sup>3</sup> b) m<sup>3</sup> c) km<sup>2</sup> d) ft<sup>3</sup> 3. If you double the dimensions of a rectangular prism, how many times larger will its

volume be? a) 2 times

c) 6 ti d) 8 t	
≈ 3.14 a) 94 b) 18 c) 282	is the volume of a cylinder with a radius of 3 cm and a height of 10 cm? (Use π 4) .2 cm³ 8.4 cm³ 2.6 cm³ 6.8 cm³
a) Cu b) Sp c) Cyl	
1. Expla	Questions: Answer the following questions in complete sentences: in why the volume of a pyramid is one-third the volume of a prism with the base area and height.
	ribe a real-life situation where calculating volume would be important and in why.
-	I have a container filled with water and you drop in an object that sinks, what ens to the water level and why?

b) 4 times