

Name: _____ Class: _____ Date: _____

Measuring Volume

The seven objects are located on the back table. Use formulas from the “Hints” section on the back of the page to estimate the volume of the following objects and then convert the units as needed.

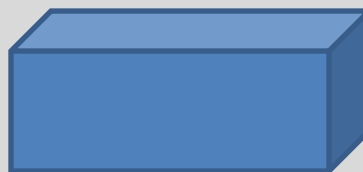
Object	Shape	Length	Width	Height	Volume (cm ³)	Volume (ml)	Volume (L)
Wooden Cube	Rectangular Prism						
Small Book							
Large Book							
Green Tub							
Object	Shape	Radius	Height		Volume (cm ³)	Volume (ml)	Volume (L)
Play-Doh Can	Cylinder						
Small Beaker							
Large Beaker							

Post-Lab Conclusions:

1. What is volume?
2. What are the two different families of units that the metric system uses to measure volume?
3. Rank the seven items in order from lowest volume to highest volume.
4. How are the units of cubic centimeters (cm^3) and milliliters (ml) related?
5. What common grocery-store item uses the unit of “Liters”?
6. How many large beakers (full of water) would it take to fill up the green tub?
7. Which has more volume, an empty milk jug or a full milk jug?

Hints:

Volume of a Rectangular Prism = $L \cdot W \cdot H$



Volume of a Cylinder = $\pi \cdot r^2 \cdot H$

Volume of a Triangular Prism = $\frac{1}{2} L \cdot W \cdot H$

