Measuring Solid Volume

Work in pairs to measure the <u>VOLUME</u> of the following <u>IRREGULAR</u> shaped objects using the "<u>Water</u> <u>Displacement</u>" method. Fill the graduated cylinder with a known quantity. Gently place the object into the cylinder to determine the objects volume. Be sure to convert the liquid volume unit to the solid volume unit.

1. Marble Volume = final volume - initial volume = _____ = ___ = ____

2. Metal Cylinder Volume = final volume - initial volume = ____ = ___ = ___

3. 5 pennies Volume = final volume - initial volume = _____ = ____

4. 1 plastic cube Volume = final volume - initial volume = -- =

5. 8 plastic cubes Volume = final volume - initial volume = ____ =

6. Rubber Eraser Volume = final volume — initial volume = ____ -- __ = ____

<u>Analysis</u>: Practice calculating volume with given length, width, and heights. Pay attention to the units of each problem as you will need to convert your measurements into the desired answer. Use your "<u>King Henry Died Monday Drinking Chocolate Milk</u>" tool to convert.

A. L = 2 cm W = 2 cm H = 2 cm $Cm \times Cm = Cm^3$

F. L = 10 m W = 8 m H = 1 m Volume = _____ cm X ____ cm X ____ cm = ____

Volume by Water Displacement Name				
Volume of graduate with object: Volume of object:	2	15	3.	15
4	5.	10	6.	
7.	8.	8	9.	
10	11	15	12	15 27 10 27 10 27 10 27 10 27 10 10 10 10 10 10 10 10 10 10 10 10 10