In-Class Exercise, Ch 1 - Basic Conversion Problems

Example: How to do a basic metric system conversion. Refer to the SI Prefixes ("multipliers") on your Yellow Sheet.

- 1) How many mL is 0.50 Liters?
 - Step 1: Write down starting quantity and unit on left and ending unit on right.
 - Step 2: Identify conversion factor (remember multiplier letter (m for milli) always goes opposite number (10⁻³).
 - Step 3: Fill in conversions so that starting unit cancels, resulting in desired ending unit.

2) One Step Metric Conversion- What mass in kilograms (kg) is 55 g?	2)
3) Two Step Metric Conversions - What length in mm is 0.029 km?	3)
E) Squared or Cubic Conversions - How many cubic inches (in ³) is 19.3 cm ³ ?	4)
s) Ratio Conversions - In Europe, a vehicle's speed is generally measure in km/hr. What speed in mi/hr is 110 km/hr? km	5)
*Note: When you begin with a unit like km/hr, be sure to write it down as $\frac{km}{hr}$ to start your problem	
5) Conversions using other ratio's- The density of lead is 11.3 g/mL. What volume (in	6)