PURPOSE HOW DO WE CALCULATE "CONCENT RATIO WARMOP copy this formula. "Memorize This!"

"Memorize This!

"Number ration = particle"
Volume #1) So M" means moles per 1

Find the concentration of 6.5 moles of KBr in 22 milliliters of Solution.

## - #3 How to solve for Liters.

rearrange the same formular
if you need to solve
for liters:

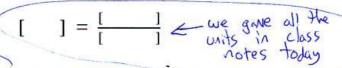
[conc = mol use algebra to

make it L = mol conc



1. The formula for calculating molarity is concentration =  $\frac{number \ of \ particles}{volume \ of \ solution}$ 

Rewrite this formula by just putting the name of the proper units in each space below:



2. For this aqueous solution USC your wednesday notes



The solute is

The solvent (hint: it's aqueous) is

3. At home, whipped cream is made by just quickly beating some liquid cream until it foams up.

The solute is The solvent (hint: it's aqueous) is

Under a microscope, smoke is mostly tiny particles of graphite.
 The solute is \_\_\_\_\_\_ The solvent (hint: it's agreeus) is \_\_\_\_\_\_

5. What is the concentration of a solution made by adding 9.84 moles of NH<sub>3</sub> gas to water to form a solution that has a volume of 3.50 liters?

Cone = mol

conc = 3.501

conc=2.81M

6. Write the memorized formula we use for calculating molarity:

- Rearrange that formula to solve for moles ("Get the word moles by itself on one side of the equals sign by using algebra.".)
- 8. Rearrange the formula from #6 to solve for volume ("Get the word moles by itself on one side of the equals sign by using algebra.".)

9. Calculate the molarity of 2.3 moles of potassium chloride in 0.45 liters of solution.
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10. Calculate the molarity of 1.2 moles of calcium carbonate in 1.22 liters of solution.
molarity = moles
11. Calculate the molarity of 0.09 moles of sodium sulfate in 12 mL of solution.
12. What is the concentration of a solution made by adding 9.84 moles of NH <sub>3</sub> gas to water to form a solution that has a volume of 3.50 liters?
×.
<ol> <li>Tell how many moles of NaCl you would need to prepare 75 mL of a 0.1 M NaCl solution. (Fix your units first!)</li> </ol>
1 1886
14. How many moles of CuSO <sub>4</sub> must be dissolved to make 39 mL of aqueous solution that has a concentration of $0.22 \frac{mol}{L}$ ?
15. The unit for molarity can be written as $\frac{mol}{L}$ ? What's another symbol for molarity?  This is in your notes  From today  Can write the unit $\frac{mol}{L}$ as $M$ it still wears the same thing.
means the same thing.