

Molarity Practice

Molarity Equation → $\text{Molarity} = \frac{\text{moles}}{\text{Liters}}$

M = MOLARITY (M) "concentration"

m = moles; if given grams divide by molar mass. If solving for mass multiply by mass from PT
Make sure to write formulas correctly

V = VOLUME; unit = Liters; if given mL divide by 1000.

1. Calculate the molarity of a solution with 2.3 moles of sodium chloride dissolved to make 0.45 L of solution.
2. What volume of 0.5M solution would be made from 1.2 moles of calcium carbonate?
3. What is the molarity of 5L of solution containing 120g of calcium nitrate?
4. How many moles of lithium nitrate will be required to make 250mL of 2M solution?
5. 45g of ammonium will make 750mL of what concentration solution?
6. What mass of magnesium sulfide would make 3L of 0.5M solution?