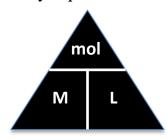
Chemistry Chapter 16 – Concentrations of Solutions

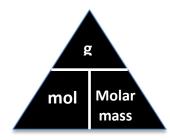
Name	
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Molarity

- A way to measure the _____ or ____ of a solution.
 - o The ______ the molarity, the _____ the solution.
 - o Symbol: _____
 - o Equation:
- Molarity Equation Reminder



• Mole Conversion Reminder



• Practice Problem 1

o Intravenous (IV) saline solutions are often administered to patients in the hospital. One saline solution contains 0.90 g NaCl in exactly 100 mL of solution. What is the molarity of the solution?

• Practice Problem 2

 Household laundry bleach is a dilute aqueous solution of sodium hypochlorite (NaClO). How many moles of solute are present in 1.5 L of 0.70 M NaClO?

Dilutions

•	Sometimes chemists need to create dilutions using know molarities and volumes when a
	less concentrated solution is desired.

•	No change in	the number of		of solute!
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• Practice Problem 1

o How many milliliters of aqueous 2.00 M MgSO₄ solution must be diluted with water to prepare 100.0 mL of aqueous 0.500 M MgSO₄?

• Practice Problem 2

You put 2 moles of HCl into 312 mL of water. If you wanted to make a 1 M dilution, how many milliliters would you need to dilute with water?