

## **Unit 7C Molarity Practice Problems I**

Name:

Date:

	Molarity: a	description of solution concentration
	Molarity Abbreviated:	
	Molarity =	
[	Show all work and circle your final a	nswer.
1.	To make a 4.00 M solution, how many mole	es of solute will be needed if 12.0 liters of solution are required?
2.	How many moles of sucrose are dissolved	I in 250 mL of solution if the solution concentration is 0.150 M?
3.	What is the molarity of a solution of HNO <sub>3</sub> t	that contains 12.6 grams HNO <sub>3</sub> in 1.0 L of solution?
4.	How many grams of potassium nitrate are	required to prepare 0.250 L of a 0.700 M solution?



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	show all work and circle your final answer.
5.	125 cm <sup>3</sup> of solution contains 3.5 moles of solute. What is the molarity of the solution?
6.	Which solution is more concentrated? Solution "A" contains 50.0 g of $CaCO_3$ in 500.0 mL of solution. Solution "B" contains 6.0 moles of $H_2SO_4$ in 4.0 L of solution. SHOW WORK!
7.	How many liters of solution can be produced from 2.5 moles of solute if a 2.0 M solution is needed?
8.	What would be the concentration of a solution formed when 1.00 g of NaCl are dissolved in water to make 100.0 mL of solution?