

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## Solutions Worksheet #1: Molarity

1) Complete the table:

	Solute formula	Molar Mass of solute (g/mole)	Mass of Solute (g)	Moles of solute (mole)	Molarity of solution (M)	Volume of solution (L)
a	NaCl	58.5	58.5	1	1.0	1.0
b	NaOH		117.0			4.0
c	MgCl <sub>2</sub>	95.3	190.3	2	1.0	2.0
d	NaCl		292.5		0.5	
e	KBr	119	238.0	2	2.0	1.0
f	NaCl				1.5	1.0
g	NaCl	58.5	14.63	0.25	1.0	0.25
h	FeCl <sub>3</sub>				0.1	0.50
i	HCl	36.5	438.0	12	6.0	2.0
j	NH <sub>3</sub>		39.1		3.0	

2) Calculate the number of moles and the number of grams of solute in each solution:

	Moles of solute (mol)	Molar Mass of solute (g/mol)	Mass of solute (g)
a	1.0 liter of 0.5 M NaCl	58.5	29.3
b	500.0 mL of 2.0 M HNO <sub>3</sub>		
c	250.0 mL of 1.0 M CaCl <sub>2</sub>	111	27.8
d	2.0 liters of 3.0 M Na <sub>2</sub> SO <sub>4</sub>		

3) Compute the mass of solute needed to make 500.0 mL of solution at the indicated molarity:

- a: 0.5M sulfuric acid 74.5g      e: 0.1M iron III chloride 8.125g  
 b: 0.01M HNO<sub>3</sub>                      f: 3M NH<sub>3</sub>  
 c: 6.0M HCl 109.5g                g: 5.0M KOH 140.0g  
 d: 0.50M sodium hydroxide

4) How many moles of H<sub>2</sub>SO<sub>4</sub> are in 1.00 liter of a 1.55M H<sub>2</sub>SO<sub>4</sub> solution? How many grams?5) How many grams of sodium sulfate are contained in 1.50L of .25M solution? 93.75g Na<sub>2</sub>SO<sub>4</sub>

6) How many grams of ammonium sulfate are required to prepare 3.50L of a 1.55M solution?

7) How many moles of sodium chromate are contained in 1.75 L of a 2.00M solution?

3.5 mol Na<sub>2</sub>CrO<sub>4</sub>8) A sample of glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>) is dissolved in water. How many moles of glucose are dissolved in 200.0 mL of solution if its concentration is .150M?

9) A mass of 98g of sulfuric acid are dissolved in water to prepare a .50M solution. What is the volume of the solution, in liters? 2L

10) What is the molarity of a solution of HNO<sub>3</sub> that contains 12.6g of solute in 500ml of solution?

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# Solutions Worksheet 1 Molarity Answer Key

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