EXERCISE 7 Chem 100 (Due date)		Name		
		(last)	(first)	
10	points	Lecture Section #	Instructor	
	swer the following questions, giving complete se I will receive no credit, even if your answer is co	. •	If you do not show your work,	
1.	What is the % (m/m) of a solution that contain dissolved in 300 g of water?	ns 75 g of KNO₃	1	
2.	How many mL of methanol, CH ₃ OH, are requir an 8.0% (v/v) methanol solution?	red to make 250 mL of	2	
3.	What is the % (m/v) of an NaOH solution that dissolved in enough water to make 150 mL of	_	3	
4.	How many grams of sodium acetate are requir a 3.2% (m/m) sodium acetate solution?	red to make 80 g of	4	
5.	Calculate the % (v/v) of a solution that contain acid dissolved in 350 mL of water.	ns 15 mL of acetic	5	
6.	How many grams of acetic acid would be need of a 12.0% (m/v) acetic acid solution?	led to make 50 mL	6	



7.	What is the molarity of a solution that was prepared by dissolving $7.4~g$ of KClO $_3$ (molar mass = 122.6 g/mole) in enough water to make 200 mL of solution?		7
8.	How many grams of KOH (molar mass = 56.1 g/mole) would be needed to prepare 300 mL of a 0.450 M KOH solution?		8
9.	What is the molarity of a solution that contains 12.5 grams of sulfuric a (molar mass = 98.1 g/mole) dissolved in enough water to make 150 ml of solution?	L	9
10.	How many grams of sodium nitrate (molar mass = 85.0 g/mole) are required to prepare 3.0 liters of a 1.5 $\underline{\text{M}}$ sodium nitrate solution?		10
11.	What is the molarity of a solution that contains 64 g of ammonium sulfate (molar mass = 132.1 g/mole) dissolved in enough water to make 80.0 mL of solution?	11	
12.	How many grams of potassium carbonate (molar mass = 138.2 g/mole) would be required to prepare 2.0 L of a 0.15 $\underline{\text{M}}$ potassium carbonate solution?	•	