Ch 4 M and %vol.do	Ор	en with Google Doos			
	41 M & 1/2	101 Ans K	ey		
AP Chemistry Practice Problem #1 Ch. 4					
A stock bottle of nitric acid solution is 46% acid by weight. The density of the solution is 1.15 g/mL.					
a) Assuming a 100 gram sample, how many moles of acid do you have?					
14.1 > 41	og HNO3 - ha	ure 46g HNO3	mul =	0.73 mai t	1N03
100	og HNO3 ha		MMJ		
	,		(63,02)		
	b) What is the molarity (M)	de a ⊎xDa	I MULHADS TO DO	00841	
	b) What is the molarity (M) $M = 0.73 \text{mu}$ $? \text{ML}$	1.15 g sota	1009-5015	63,029 HNB	= 0.00
	SMT	1 ml som			8.4mM
1					
					millimole
					MILLIMOG
c) What is the molality (m) of the stock solution? Molality = mol solute/kg solvent					
	5.0084 mol HNO3				
	1 ML Solution				
	469 HNOS or	469 HNO3	10000	mol HND3	= 14 m
	100 g 501m	549 H20	1 Kg	63,029 AN	3
	100 9 30				*