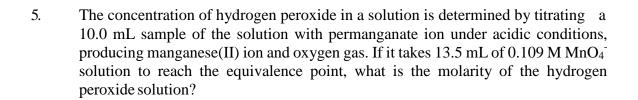
	NAME	
WOR	KSHOP 6C: Solution Stoichiometry	Section
Write balanced equations and show calculation setups for all the problems below.		
1.	A 1.192 g sample of oxalic acid, $H_2C_2O_4$, is placed i and filled to the mark with water. What is the molar	
2.	How many grams of sodium dichromate should be a flask to prepare a 0.025 M sodium dichromate soluthe mark with water?	
3.	A chemist wants to prepare 0.250 M HCl(aq). Com 12.4 M. How many milliliters of the commercial aci make up 1.50 L of the dilute acid?	
4.	If 35.4 g of aluminum are treated with 721 mL of 5.8 hydrogen gas will theoretically be formed?	86 M HCl, how many grams of



6. A flask contains 49.8 mL of 0.150 M calcium hydroxide solution. How many milliliters of 0.350 M sodium carbonate are required to react completely with the calcium hydroxide?

7. During the developing process of black and white film, silver bromide is removed from photographic film by the fixer. The major component of the fixer is sodium thiosulfate. What mass of silver bromide can be dissolved by 1.00 L of 0.200 M sodium thiosulfate?

$$AgBr(s) + S_2O_3^{-2}(aq) \rightarrow Ag(S_2O_3)_2^{-3}(aq) + Br(aq)$$
 (unbalanced)

8. A 3.33 gram sample of iron ore is transformed to a solution of iron(II) sulfate, and this solution is titrated with 0.150 M potassium dichromate. If it required 41.4 mL of potassium dichromate solution to titrate the iron(II) sulfate solution, what is the percentage of iron in the ore?

$$Fe^{+2}(aq) + Cr_2O_7^{-2}(aq) \rightarrow Fe^{+3}(aq) + Cr^{+3}(aq)$$
 (unbalanced)