Chapter 4 Practice Test

***Here is more practice to help you get ready for the midterm. You will have questions over moles, empirical and molecular formulas, percent composition, parts of the atom, famous people and ect...

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Write the net ionic equation for each reaction below, #1-6. Balance the ionic charge. Classify each reaction type for the original reaction. 1. Solid lithium oxide is added to water. Net Ionic equation: 2. Hydrogen sulfide gas is bubbled through potassium hydroxide solution. Net Ionic equation: Type: _____ Ethane, C₂H₆, is combusted in air. Balance the net ionic equation in terms of atoms. 3. Net Ionic equation: 4. Potassium metal is strongly heated in nitrogen gas. Net Ionic equation: 5. Metallic sodium pellets are added to water. Net Ionic equation: 6. A solution of ethanoic acid is added to a solution of barium hydroxide. Net Ionic equation: Type: _____ $Al + MnO_4 \rightarrow MnO_2 + Al(OH)_4$. Show the two half reactions, identify the oxidizing 7. Given the basic reaction and reducing agent and show the overall balanced Redox reaction. Oxidized ½ rxn: Reduced 1/2 rxn: ____ Oxidizing agent: Reducing Agent:

Balanced Redox Reaction:

8.	8. Given the acidic reaction $Cu(s) + NO_3(aq) \rightarrow Cu^{2+}(aq) + NO(g)$. Show the two half reactions, identify the oxidizing and reducing agent and show the overall balanced Redox reaction.		
	Oxidized ½ rxn:		
	Reduced ½ rxn:		
	Oxidizing agent:	Reducing Agent:	
Bal	anced Redox Reaction:		