Na	fame Date Period			
	Stoichiometry Ws # 1: Basic Stoichiometric Conversions			
MOLE TO MOLE CONVERSIONS				
1.	 Iron III nitrate solution reacts with lithium hydroxide solution to produce solid iron III hydroxide and lithium nitrate solution. A. Write a balanced equation. 			
	B. How many moles of lithium nitrate are produced when 3 moles of iron III nitrate read	:†?		
	C. How many moles of lithium hydroxide are needed to produce 6.3 moles of iron III hydroxide?			
MASS TO MOLE CONVERSIONS				
2.	Sodium reacts with chlorine gas to produce sodium chloride. A. Write a balanced equation.			
	B. How many grams of chlorine gas are needed if 4.0 moles of sodium react?			
	C. How many grams of each reactant are needed to produce 2.0 moles of the product?			
MOLE TO MASS CONVERSIONS				
3.	Lead II nitrate and sodium iodide react to form sodium nitrate and lead II iodide. A. Which product is the precipitate?			
	B. Write a balanced equation.			

- C. How many moles of sodium iodide react with 250. grams of lead II nitrate?
- D. If 140. grams of lead II iodide are produced, how many moles of sodium iodide were used?

MASS TO MASS CONVERSIONS

4.	Solid Magnesium oxide reacts with liquid water to produce magnesium hydroxide. A. Write a balanced equation for the reaction.		
	В.	How many grams of MgO are needed to produce 264. grams of Mg(OH)2?	
	C .	How many grams of magnesium hydroxide are produced when 57.0 grams of water are used?	
	D.	How many grams of water are needed to react completely with 10.0 grams of magnesium oxide?	
ΥO	OU C	HOOSE THE TYPE OF CONVERSION	
	Aqı Bar	ueous solutions of Barium Nitrate and Ammonium Carbonate are combined to produce solid rium Carbonate and Ammonium Nitrate solution. Write the Balanced equation.	
	В.	How many grams of barium nitrate are needed to react with 220. grams of ammonium carbonate?	
	c .	How many moles of ammonium nitrate will be produced from 110. grams of ammonium carbonate?	
	D.	How many moles of Ammonium Nitrate can be produced from 3 moles of Barium Nitrate?	
	Ε.	How many moles of barium carbonate would be produced from 6 moles of ammonium carbonate?	
	F.	How many grams of Barium nitrate are needed to produce 5 grams of barium carbonate?	