Name:_____ Block:_____ Date:_____

Chemistry 11 **Molarity Intro** Assignment

(16 marks)

1. What is the molarity of the solution produced when 145g of sodium chloride is dissolved in sufficient water to prepare 2.75L of solution?

2. How many grams of potassium chloride are needed to prepare 0.750L of a 1.50M solution of potassium chloride in water?

3. What is the molarity of the solution produced when 85.6g of sulphuric acid is dissolved in enough water to produce 0.385L of solution?

4. To produce 3.00L of a 1.90M solution of sodium hydroxide, how many grams of sodium hydroxide must be dissolved?

5. If 8.77g of potassium iodide are dissolved in sufficient water to make 4.75L of solution, what is the molarity of the solution?

6. In order to prepare 2.00L of a 3.00M solution of iron(III) chloride, how many grams of iron(III) chloride must be used?

7. What is the molarity of the solution produced when 14.1g of ammonia (NH_3) is dissolved in sufficient water to prepare 0.100L of solution?

8. To prepare 10.5L of a 2.50M solution of calcium hydroxide, how many grams of calcium hydroxide must be used?