Reactions in Aqueous Solution

– MOLARITY PROBLEMS

***Solve the following problems:***

1. A 2.00 mole sample of NaOH is dissolved in enough water to make 500. mL of solution. What is the concentration of the solution?
2. 60.0 grams of NaOH (MM = 40.00 g·mol-1) is dissolved in enough water to make 0.750 L of solution. What is the concentration of the solution?
3. A 250. mL sample of a 0.125 M solution of NaOH contains \_\_\_\_\_\_\_\_ grams of NaOH.
4. You need to make 2.00 L of 0.200 M HCl.

What volume of concentrated HCl (11.65 M) should you dilute? \_\_\_