Name: _____ Period: _____

Concentration Units Practice

1. What is the concentration (in M) of a solution containing 5.2 moles of sodium chloride in 500.0 mL of solution?

2. How many liters of 4 M solution can be made using 100.0 g of lithium bromide?

3. How many grams of potassium carbonate are needed to make 200 mL of 2.5 M solution?

4. What is the concentration of an aqueous solution with a volume of 450 mL that contains 200.0 grams of iron (II) chloride?

5. If 326g of C_6H_6 dissolve in 820. g of acetone. What is the molality?

6. What mass of glucose must dissolve in 400. g of ethanol to make a 1.6 m solution?

7. Calculate the molality when 75.0 grams of $MgCl_2$ is dissolved in 500.0 g of solvent.

8. According to lab procedure, you stir 25.0 g of $MgCl_2$ into 550 mL of water. What is the percent by mass of $MgCl_2$ in the solution?

9. How many grams of LiCl are in 275 g of a 15% aqueous solution of LiCl?

10. Calculate the percent by volume of a solution created by adding 75 mL of acetic acid to 725 mL of water.