Name:

Date: _____



Worksheet: Concentration Calculations

1. A saline solution with a mass of 355 g has 36.5 g of NaCl dissolved in it. What is the mass/mass percent concentration of the solution? **10.3 %**

 What is the concentration in mass/volume percent of a solution if you dissolve 1.25 g of NaCl in 25.0 mL of water?

Calculate the amount of ethanol in wine in mL in a 750 mL bottle given that the label indicates that the wine is 12% v/v.
 90 mL

4. If 17 g of sucrose is dissolved in 183 g of water, what is the concentration of sucrose in ppm?
9.29 x 10⁷ ppm

- 5. What mass of baking soda, NaHCO₃, is required to make a 0.25 L, 0.1 M solution? **2.10 g**
- 6. What is the final concentration of a 2.75 M HCl_(aq) solution if the original 2.0 L solution was diluted to a final volume of 3.5L?
 1.57 M