

### **Concentration Worksheet 2**

1. A student needs to make 300.0 mL of a 2.0 g/L solution of HCl from a 5.0 g/L solution. What initial volume is needed?
2. 0.25 L of a 3 g/L solution are on the counter. How much of the solution should he dilute to 0.30 L to make a 2 g/L solution?
3. If 30.0 grams of sodium hydroxide are dissolved and then diluted to 2.00 L with water, what is the molar concentration (molarity) of the solution?

n =

V =

C =

4. Find the concentration in g/L for each of the following:

- a) 20 g of NaCl dissolved in 500 L of solution
- b) 2.8 g of NaBr dissolved in 200 mL of solution
- c) 200 mg of KCl dissolved in 75 mL of solution

5. How many grams of Br<sub>2</sub> are needed to make 250 mL of a 4.5 g/L solution?