Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_

**Calculating Chemical Concentration**

**General Outcome #2: Identify ways to measure the quantity of**

**environmental chemicals.**

* ***Can I calculate chemical concentration in parts per million (ppm) and***

***billion (ppb)?***

1. There are 0.3 ppm of fluoride ions in a 591 mL bottle of water. How many mL of fluioride is in one bottle of water?
2. There are 2.5mg of strychnine in a 500g bottle of pesticide. Calculate its concentration in ppm.
3. Arsenic is toxic at a level of 5ppb. How many mg would be found in a 68 kg person who died of arsenic poisoning?
4. Chlorox bleach solution contains chlorine at a concentration of 200 ppm. At this concentration, how much Chlorox bleach could you make with 15 mL of chlorine?