**Unit 10 EOC: concentration**

1. Molarity:
   1. given the formula, symbol, and an explanation of each variable
   2. give a STEP—by—STEP instruction for solving the following molarity problem
      1. bill dissolves 37.2 grams of sodium chloride in a total volume of 250 mL. calculate the molarity of the solution
2. Molality:
   1. Give the formula, symbol, and explanation of each variable
   2. give a STEP—by—STEP instruction for solving the following molarity problem
      1. Sue dissolves 5.6 grams of LiF in exactly 232 grams of water. Determine the molality
3. ppm:
   1. define and give an explanation of how to solve the following problem:
      1. Ben knows the accepted levels of a carcinogen in his lunch meat is 4.5 ppm. If a sample has 2.8 x 10-6 parts per 1,000 does this fall in accepted level?
4. ppb:
   1. Define and understand is works the same way as ppm