Skill Practice 54

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Concentration Practice

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hour: \_\_\_\_\_

1. What is the mass percent of calcium chloride if 45 g of CaCl2 is dissolved in 320 g of water?
2. A solution is prepared by dissolving 32 g of salt in 278 g of water.
   * 1. What is the mole fraction of salt in the solution?
     2. What is the mole fraction of water in the solution?
3. How many grams of calcium nitrate needs to be added to 400 g of water to make a solution that is 12.5% by mass of Ca(NO3)2?
4. A certain solution of salt water has a molality of 3.25 m.
   1. What is the mole fraction of salt in the solution?
   2. What is the mass percent of salt in the solution?
5. If 325 mL of a solution was prepared by dissolving 83.8g of Na3PO4 in 310 g of water…
   1. What is the molarity of the solution?
   2. What is the molality of the solution?
6. Describe how you could prepare 200 mL of a solution that is 1.2 M NaCl.