**Molarity(M) and Molality(m)** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_Hr. \_\_\_\_\_\_

**Calculate the molarity (M) of the following solutions. Include units. Show your work.**

1. 25.0 g of NaOH in 1.00L of solution.

2. 75.0 g of Na2SO4 in 800. mL of solution

3. 0.500 g of Fe(NO3)3 in 250 .0 mL of solution

4. 10.0 g of NaC2H3O2 in 85 .0 mL of solution

5. 45.0 g K3PO4 in 550. mL of solution

**Calculate the molality (m) of the following solutions. Include units. Show your work.**

6. 25.0 g of NaCl in 350. g H2O

7. 6.00 g of NaNO3 in 50.0 g of H2O

8. 0.0100 g of CaCl2 in 10.0 g of H2O

9. 150. g of (NH4)2SO4 in 1200. g H2O

10. 100. g CO(NH2)2 in 5.50 kg H2O