Unit 4 – Chapter 4	Name
Practice problems	Period

- 1) A standard solution is prepared for the analysis of fluoxymesterone ($C_{20}H_{28}FO_3$), an anabolic steroid. A stock solution is first prepared by dissolving 10.0 mg of fluoxymesterone in enough water to give a total volume of 500.0 mL. A 100.0 μ L aliquot (portion) of this solution is diluted to a final volume of 100.0 mL. Calculate the concentration of the final solution in terms of molarity.
- 2) When the following solutions are mixed together, what precipitate (if any) will form?
 - a. $Hg_2(NO_3)_{2(aq)} + CuSO_{4(aq)}$
 - b. $Ni(NO_3)_{2(aq)} + CaCl_{2(aq)}$
 - c. $K_2CO_{3(aq)} + MgI_{2(aq)}$
 - d. $Na_2CrO_{4(aq)} + AlBr_{3(aq)}$