

Chemistry CP

Name: _____

Handout: Molarity and Percent Solutions

Section: _____

Part A: Molarity

1. What is the molarity of a solution in which 4.75 g of NaNO_3 are dissolved in enough water to make 250 mL solution?

2. How many grams of CaCl_2 are needed to prepare 875 mL of a 0.561 M solution?

3. To what volume should 10.00 g of KBr be dissolved to prepare a 0.3500M solution?

4. How many grams of Li_2SO_4 are needed to prepare 6.0L of a 1.5M solution?

Part B: Percent Solutions by Mass

1. What mass of NaCl would be found in 100. g of 7.35% solution?

2. What mass of K_2SO_4 should be dissolved in sufficient water to make 200. g of 10.5% solution?

3. A pharmacist needs to prepare a medicinal ointment. She mixes 6.2 g of solid D with 51.8 g of ointment base Q. What is the percentage of D by mass in the ointment? (hint: part/total)