

Pre-AP Chemistry and Chemistry I

Unit #11—Solutions

Molarity and Solution Calculations

- 1) How many grams of K_2SO_4 are needed to make 200 mL of a 2.5 M solution?
- 2) How many liters of 4 M solution can be made using 100 grams of LiBr?
- 3) How many moles of $CuSO_4$ are needed to make a 0.25 L solution at a concentration of 6 M?
- 4) How many moles of $AuPO_4$ are needed to make 670 milliliters of a 1.2 M solution?
- 5) How many liters of 0.88 M solution can be made with 25.5 grams of LiF?
- 6) How many milliliters of 0.75 M solution can be made using 75 grams of PbO_2 ?
- 7) How many grams of manganese (IV) oxide are needed to make a 5.6 liters of a 2.1 M solution?
- 8) How many liters of 3.4 M solution can be made using 78 grams of isopropanol, C_3H_8O ?