**Molarity Practice Problems**

1) How many grams of potassium carbonate are needed to make 400 mL of a 4.5 M solution?

2) How many liters of 3 M solution can be made using 150 grams of lithium bromide?

3) What is the concentration of a 650 mL solution that contains 200 grams of iron (II) chloride?

4) How many grams of ammonium sulfate are needed to make a 0.75 L solution at a concentration of 12 M?

5) What is the concentration of a solution that has a volume of 4.5 L and contains 760 grams of calcium phosphate?

6) How many grams of copper (II) fluoride are needed to make 7.6 liters of a 2.1 M solution?

7) How many liters of 0.88 M solution can be made with 25.5 grams of lithium fluoride?

8) What is the concentration of a solution that with a volume of 460ml that contains 43.3 grams of aluminum acetate?

9) How many liters of 1.75 M solution can be made using 75 grams of lead (II) oxide?

10) How many grams of manganese (IV) oxide are needed to make 6.5 liters of a 3.4 M solution?

11) What is the concentration of a solution with a volume of 900 mL that contains 300 grams of iron (III) hydroxide?

12) How many liters of 3.4 M solution can be made using 120 grams of isopropanol (C3H8O)?

13) What is the concentration of a solution with a volume of 3.3 L that contains 12 mol of ammonium sulfite?