

Molarity Practice Problems

- 1) How many grams of potassium carbonate 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 lithium bromide?

- 3) What is the concentration of a 450 mL solution that contains 200 grams of iron (II) chloride?

- 4) How many grams of ammonium sulfate are needed to make 0.25 L of solution at a concentration of 6 M?

- 5) What is the concentration of a solution that has a volume of 2.5 L and contains 660 grams of calcium phosphate?

- 6) How many grams of copper (II) fluoride are needed to make 6.7 liters of a 1.2 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 660 that contains 33.4 grams of aluminum acetate?
- 9) How many liters of 0.75 M solution can be made using 75 grams of lead (II) oxide?
- 10) How many grams of manganese (IV) oxide are needed to make a 5.6 liters of a 2.1 M solution?
- 11) What is the concentration of a solution with a volume of 9 mL that contains 2 grams of iron (III) hydroxide?
- 12) How many liters of 3.4 M solution can be made using 78 grams of isopropanol ($\text{C}_3\text{H}_8\text{O}$)?
- 13) What is the concentration of a solution with a volume of 3.3 mL that contains 12 grams of ammonium sulfite?