

## Molarity Calculations

Calculate the molarities of the following solutions:

1) 2.3 moles of sodium chloride in 0.45 liters of solution.

$$\frac{2.3 \text{ mol}}{0.45 \text{ L}} = 5.1 \text{ M}$$

2) 1.2 moles of calcium carbonate in 1.22 liters of solution.

3) 0.09 moles of sodium sulfate in 12 mL of solution.

4) *How many grams of HCl are needed to make 2 L of 6 M HCl? (molar mass = 36.46 g)*

5) *How many grams of NaOH are needed to make 1.5 L of 2 M NaOH? (molar mass = 40.00 g)*

6) How many liters of 4 M solution can be made using 100 grams of lithium bromide?

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