- Mole Fraction (X) represents the *mole component* divided by _____ moles.
 - □ **Mole Component**: The element or compound whose mole fraction you must determine.

Mole Fraction Formula Mole Fraction (X) = ______

EXAMPLE: 25.0 g dichloromethane, CH₂Cl₂, are dissolved in 125 g H₂O, what is the mole fraction of dichloromethane?

- STEP 1: Convert all the masses into ______.
 - To avoid rounding errors, make sure the values have at least 4 decimal places
- **STEP 2:** Place the **mole component** as the numerator of the mole fraction formula.
- STEP 3: Determine the total value of all moles added together and place it as the denominator of the mole fraction formula.
 - ☐ Your final answer should have no units because mole fraction (X) is a unitless expression.

PRACTICE: A reaction vessel is composed of 20.3 g Cl₂, 4.27 g N₂ and 10.8 g Ne. Calculate the mole fraction of nitrogen.