

## CONCEPT: MASS PERCENT

### Calculate Mass Percent

- Mass percent (weight percent) is the percentage of a given element in a compound.
  - It deals with the \_\_\_\_\_ (in grams) of the selected element and 1 mole of the compound.

#### Mass Percent Formula

$$\text{Mass Percent} = \frac{\text{element}}{\text{compound}} \times 100\%$$

**EXAMPLE:** Determine the weight percent of carbon found in sucrose,  $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ .

**PRACTICE:** Determine the percent composition of nitrogen and oxygen with nitrogen dioxide,  $\text{NO}_2$ .