

COUNTING ATOMS

WORKSHEET

For each compound listed, identify the elements and count the number of each type of atom.

- H_2SO_4 (Sulfuric Acid)

- NaHCO_3 (Sodium Bicarbonate)

- C_6H_6 (Benzene)

State whether the following statements are true or false. Correct the false statements.

- The compound CO_2 has two carbon atoms.
- A molecule of H_2O_2 has two hydrogen atoms and one oxygen atom.

Calculate the total number of atoms in these compounds.

- 3 molecules of $\text{C}_2\text{H}_4\text{O}_2$ (Acetic Acid)
- 2 molecules of $\text{Al}_2(\text{CO}_3)_3$ (Aluminum Carbonate)

Write the chemical formula for the following descriptions.

- One magnesium, two chlorine atoms.
- Two aluminum, three sulfate groups.