

# Counting Atoms Worksheet

Answer the following questions based on the chemical formulas provided.

1 How many atoms are in a molecule of carbon dioxide ( $\text{CO}_2$ )?

2 If a compound contains 3 molecules of water ( $\text{H}_2\text{O}$ ), how many hydrogen atoms are there in total?

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

1) The compound  $\text{NaCl}$  (table salt) contains 2 atoms: 1 sodium (Na) and 1 chlorine (Cl).

2) A molecule of glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ ) has 6 carbon atoms, 12 hydrogen atoms, and 6 oxygen atoms.

3) In the formula  $\text{Ca}(\text{OH})_2$ , there are 2 calcium atoms, 2 oxygen atoms, and 2 hydrogen atoms.