

Molecular Formula Worksheet

Part A: Counting Atoms in Molecular Formulas

For each compound, write the number of atoms of each element present.

1. H ₂ O	2. CO ₂	3. NH ₃
4. C ₆ H ₁₂ O ₆	5. CH ₄	6. Ca(OH) ₂

Part B: Deduce Molecular Formulas from Models/Diagrams

For each description of a molecular model, write the correct molecular formula.

7. 2 hydrogen atoms + 1 oxygen atom = _____
8. 1 carbon atom + 4 hydrogen atoms = _____
9. 2 oxygen atoms = _____
10. 1 nitrogen atom + 3 hydrogen atoms = _____
11. 1 carbon atom + 2 oxygen atoms = _____

Extension: Draw your own molecular model of water, carbon dioxide, or methane. Label each atom and write the molecular formula.