

Balancing Chemical Equations Worksheet

1. ___ molecules of hydrogen (H_2) react with ___ molecules of oxygen (O_2) to produce ___ molecules of water (H_2O).
2. ___ atoms of sodium (Na) react with ___ molecules of chlorine gas (Cl_2) to form ___ formula units of sodium chloride (NaCl).
3. ___ molecules of carbon dioxide (CO_2) are produced when ___ molecules of propane (C_3H_8) combust with ___ molecules of oxygen (O_2), also producing ___ molecules of water.
4. ___ molecules of sulfuric acid (H_2SO_4) react with ___ atoms of aluminum (Al) to produce ___ formula units of aluminum sulfate ($\text{Al}_2(\text{SO}_4)_3$) and ___ molecules of hydrogen gas (H_2).
5. When ___ molecules of iron (III) oxide (Fe_2O_3) react with ___ molecules of carbon monoxide (CO), ___ atoms of iron (Fe) and ___ molecules of carbon dioxide (CO_2) are produced.