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Balancing Symbolic Equations

While balancing equations, take into consideration the following:

- 1. Never change the formula and the subscripts in a formula.
- 2. Remember the seven diatomic molecules are always written as H2, N2, O2, F2, Cl2, Br2, I2. Balance the atoms on either side of the equation by changing the coefficients. You can use the mnemonic "BrINCIHOF" (Sonds like: "Brinkelhoff")
- 3. Make sure the coefficients are the smallest set of a whole number.

Now try balancing these equations:

7.
$$NH_3 + O_2 -----> NO + H_2$$

9.
$$C_6H_6 + O_2 ----- > CO_2 + H_2O$$