# Open Chemistry Online – Post Quiz #4 (OpenStax Ch: 3.1, 4.1, 4.3)

1. Explain the differences between the coefficients and the subscripts in a balanced chemical reaction?
2. Calculate the numbers of each atom in the following reaction. Is this balanced?
3. If the reaction above was not balanced, balance it now! If not, state why balancing is not needed.
4. With the balanced reaction from part C and D, calculate the mass in grams of hydrochloric acid (HCl) produced from 10.0 grams of chlorine (Cl2) using excess hydrogen (H2)