Steps to Balancing Chemical Equations

1) Determine number of atoms for each element.
2) Pick an element that is not equal on both sides of the equation.
3) Add a coefficient in front of the formula with that element and adjust your counts.
4) Continue adding coefficients to get the same number of atoms of each element on each side.

***To receive full credit, you must show <u>all of your work</u>. ***

1.   _____K + _____Cl_2 → _____KCl

2.   _____Na + _____HF → _____H_2 + _____NaF

3.   _____Na_2S + _____KI → _____NaI + _____K_2S

4.   _____$NaNO_3$ + _____H_2SO_4 → _____Na_2SO_4 + _____HNO_3

5.   _____C_2H_6 + _____O_2 → _____CO_2 + _____H_2O