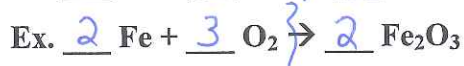
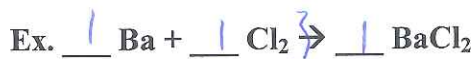


Name: CALVIN
Date:
Hour:

Chemistry ~ Ch.11 ~ Balancing Equations

- 1) FORMULAS MUST BE CORRECT!!!
- 2) *Subscripts balance formulas! Coefficients balance equations!*
- 3) Both sides of the arrow must have the same number of *each type of atom*.
- 4) Save *Hydrogen* and *Oxygen* for last (especially combustion!)
- 5) FORMULAS MUST BE CORRECT!!!
- 6) To the LEFT of each letter ~ indicate the reaction *TYPE*.
(i.e. Combination/Synthesis, Decomp, SR, DR, Combustion)



a) Lithium + Fluorine \rightarrow Lithium Fluoride



b) Sodium + Calcium Nitrate \rightarrow Calcium + Sodium Nitrate



c) Hydrogen + Oxygen \rightarrow Water vapor



d) $\underline{\quad} \text{ Zn} + \underline{\quad} \text{ HCl} \rightarrow \underline{\quad} \text{ ZnCl}_2 + \underline{\quad} \text{ H}_2$

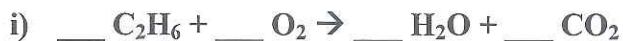
e) Magnesium + Oxygen \rightarrow Magnesium Oxide



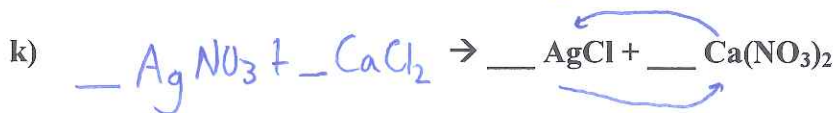
f) Barium Phosphate + Aluminum Oxide \rightarrow Barium Oxide + Aluminum Phosphate



h) $\underline{\quad} \text{ H}_2(\text{SO}_4) + \underline{\quad} \text{ K}(\text{OH}) \rightarrow \underline{\quad} \text{ K}_2(\text{SO}_4) + \underline{\quad} \text{ H}_2\text{O}$



j) Nitrogen gas reacts with Hydrogen gas to produce Ammonia (NH_3)



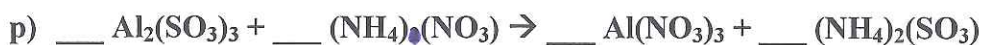
l) Potassium + Bromine \rightarrow Potassium Bromide



m) Copper reacts with Sodium Nitrate to yield \rightarrow Copper^(II) Nitrate + Sodium



n) Barium Chloride + Lithium Fluoride \rightarrow Barium Fluoride + Lithium Chloride



q) Methane (find in your text) undergoes combustion



r) Calcium Carbonate + Potassium Sulfate \rightarrow Calcium Sulfate + Potassium Carbonate



t) CREATE YOUR OWN ~ TRADE with someone and SOLVE

Go VIKINGS!!