Name:_____
Blk:____Date:_____

An introduction to STOICHIOMETRY

Together with a partner, complete the following activities using the packages of Rockets® provided**:**

1. One purple Rocket® (Pu) reacts with one pink Rocket® (Pi) to form a $PuPi_2$ compound, according to the following UNBALANCED equation:

__ Pu + ___ Pi → ___ $PuPi_2$

a. How many $PuPi_2$ molecules can you form?

b. What type of a reaction does this represent?

c. Did you use all the Purple and Pink's in your packages?
If no, which ones are left over?

2. A compound composed of 1 White Rocket and 2 Green Rockets ($WiGe_2$) reacts with a compound composed of 2 Yellow Rockets (Ye_2) to form two different compounds as seen in this UNBALANCED equation:

____$WiGe_2$ + ____Ye_2 → ____ $WiYe_4$ + ____Ge_2

a. How many $WiYe_4$ compounds can you form? How many Ge compounds?

b. What type of a reaction does this represent?

c. Did you use all the Rocket's in your package?If no, which ones are left ove

3. A compound made up of 1 Green and 1 Orange Rocket® reacts with a compound composed of 1 Purple and 2 Pink Rocket® and the following products form:

$$\_\_\_GeO + \_\_\_ PuPi_2 \rightarrow \_\_\_GePi_2 + \_\_ PuO$$

a. How many $GePi_2$ molecules can you form? How many $PuPi_2$ molecules can you form?

b. What type of a reaction does this represent?

c. Did you use all the Rocket's in your package? If no, which ones are left over?

4. Now that you have completed the above 3 activities, what can you conclude from this experience? How do the candies represent chemicals in a chemical reaction? What do you now know that you did not consider before?