**Stoichiometry Quiz #1 A Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. The reaction of sodium with chlorine produces sodium chloride.
   1. Write a balanced equation for the above reaction.
   2. If 4 g of sodium metal is used in the reaction, what amount in moles of chlorine gas is needed?
   3. What amount of chlorine gas is needed in grams?
2. A reaction between nitrogen gas and hydrogen gas makes ammonia (NH3).
   1. Write a balanced equation for the above reaction.
   2. If 10 g of nitrogen are used in the reaction, what amount of ammonia is produced in moles?
   3. What amount of ammonia is produced in grams?

**Stoichiometry Quiz #1 B Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. The reaction of hydrogen gas and oxygen gas produces water.
   1. Write a balanced equation for the above reaction.
   2. If 2 g of hydrogen gas is used in the reaction, what amount in moles of oxygen gas is needed?
   3. What amount of oxygen gas is needed in grams?
2. A reaction between fluorine gas and lithium metal makes lithium fluoride.
   1. Write a balanced equation for the above reaction.
   2. If 12 g of fluorine gas are used in the reaction, what amount of lithium fluoride is produced in moles?
   3. What amount of lithium fluoride is produced in grams?