1.3 REACTING MASSES, LIMITING REAGENTS AND YIELD

1. Ammonia and oxygen combine to form nitrogen monoxide and water by the chemical reaction:

If of ammonia are reacted with 100 g of oxygen, what mass of nitrogen monoxide is produced and what volume does it occupy under standard conditions?

1. In respiration, what volume of carbon dioxide is formed under standard conditions when of glucose is reacted in of oxygen?
2. For the following reaction determine the yield of aluminium chloride if we start with of aluminium and of chlorine.
3. Iron (III) oxide ( can be reduced to iron by heating it with carbon monoxide according to the equation:

If of iron oxide are reacted with of carbon monoxide, determine the limiting reagent and the mass of iron produced.