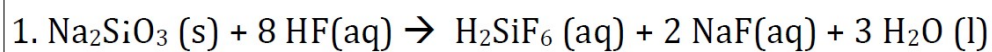


LO: Students will be able to understand and interpret stoichiometric ratios.

DOL: Students will correctly use stoichiometric ratios at least 4/5 times.

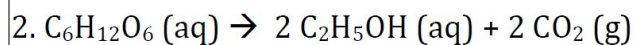


a. How many moles of HF are needed to react with 0.300 mol of Na_2SiO_3 ?



b. How many grams of NaF form when 0.500 mol of HF reacts with excess Na_2SiO_3 ?

c. How many grams of Na_2SiO_3 can react with 0.800 g of HF?

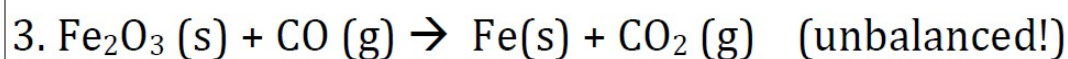


a. How many moles of CO_2 are produced when 0.400 mol of $\text{C}_6\text{H}_{12}\text{O}_6$ reacts in this fashion?



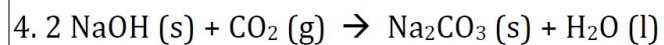
b. How many grams of $\text{C}_6\text{H}_{12}\text{O}_6$ are needed to form 7.50 g of $\text{C}_2\text{H}_5\text{OH}$?

c. How many grams of CO_2 form when 7.50 g of $\text{C}_2\text{H}_5\text{OH}$ are produced?



a. Calculate the number of grams of CO that can react with 0.150 kg of Fe_2O_3

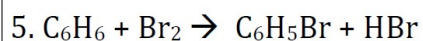
b. Calculate the number of grams of Fe and the number of grams of CO_2 formed when 0.150 kg of Fe_2O_3 reacts



a. Which reagent is the limiting reactant when 1.85 mol NaOH and 1.00 mol CO₂ are allowed to react?



b. How many moles of Na₂CO₃ can be produced?



a. What is the theoretical yield of C₆H₅Br in this reaction when 30.0 g of C₆H₆ reacts with 65.0 g of Br₂?



b. If the actual yield of C₆H₅Br was 56.7 g, what is the percent yield?