

Key.

b) 6.45 moles Cr_2O_3 $\text{FW} = 152.0 \text{ g/mol}$ 980 g

$$6.45 \text{ mol} \times \left(\frac{152.0 \text{ g}}{1 \text{ mol}} \right) = 980 \text{ g}$$

c) 0.144 mole K_2S $\text{FW} = 110.3 \text{ g/mol}$ 15.9 g

$$0.144 \text{ mol} \times \left(\frac{110.3 \text{ g}}{1 \text{ mol}} \right) = 15.9 \text{ g}$$

d) 5.0 moles $\text{C}_6\text{H}_{12}\text{O}_6$ 180.0 g/mol 900 g $\approx 9.0 \times 10^2 \text{ g}$

$$5.0 \text{ mol} \times \left(\frac{180.0 \text{ g}}{1 \text{ mol}} \right) = 900 \text{ g}$$

e) 5.10×10^{-4} mole NaCl $\text{FW} = 58.5 \text{ g/mol}$ $0.0298 \text{ g} \approx 2.98 \times 10^{-2} \text{ g}$

$$5.10 \times 10^{-4} \text{ mol} \times \left(\frac{58.5 \text{ g}}{1 \text{ mol}} \right) = 0.0298 \text{ g}$$

Solve the following stoichiometry problems. Write a balanced equation for each.

a) How many moles of hydrogen gas are needed to react with 15.1 g chlorine gas, to produce hydrogen chloride gas? Equation: $\text{H}_2(\text{g}) + \text{Cl}_2(\text{g}) \rightarrow 2 \text{HCl}(\text{g})$

$$15.1 \text{ g} \times \left(\frac{1 \text{ mol}}{71.0 \text{ g}} \right) = 0.213 \text{ mol } \text{Cl}_2$$

$$0.213 \text{ mol } \text{Cl}_2 \left(\frac{1 \text{ mol H}_2}{1 \text{ mol } \text{Cl}_2} \right) = 0.213 \text{ mol H}_2 \quad \underline{0.213 \text{ mol H}_2}$$

b) How many grams of oxygen gas are needed to react completely with 16.2 g of hydrogen gas, to produce water? Equation: $2 \text{H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2 \text{H}_2\text{O}(\text{l})$

$$16.2 \text{ g} \times \left(\frac{1 \text{ mol}}{2.0 \text{ g}} \right) = 8.10 \text{ mol H}_2$$

$$8.10 \text{ mol H}_2 \left(\frac{1 \text{ mol O}_2}{2 \text{ mol H}_2} \right) = 4.05 \text{ mol O}_2 \quad \underline{130 \text{ g O}_2}$$

$$4.05 \text{ mol O}_2 \left(\frac{32.0 \text{ g/mol}}{1 \text{ mol}} \right) = 130 \text{ g O}_2$$

c) How many moles of calcium oxide are produced when 36.5 g of calcium react completely with oxygen gas? Equation: $2 \text{Ca}(\text{s}) + \text{O}_2(\text{g}) \rightarrow 2 \text{CaO}(\text{s})$

$$36.5 \text{ g} \left(\frac{1 \text{ mol}}{40.1 \text{ g}} \right) = 0.910 \text{ mol Ca}$$

$$0.910 \text{ mol Ca} \left(\frac{2 \text{ mol CaO}}{2 \text{ mol Ca}} \right) = 0.910 \text{ mol } \underline{0.910 \text{ mol CaO}}$$

d) How many grams of aluminum are required to produce 410 g of aluminum oxide, through reaction with oxygen gas? Equation: $4 \text{Al} + 3 \text{O}_2 \rightarrow 2 \text{Al}_2\text{O}_3$

$$410 \text{ g} \left(\frac{1 \text{ mol}}{102.0 \text{ g}} \right) = 4.02 \text{ mol Al}_2\text{O}_3$$

$$4.02 \text{ mol Al}_2\text{O}_3 \left(\frac{4 \text{ mol Al}}{2 \text{ mol Al}_2\text{O}_3} \right) = 8.04 \text{ mol Al}$$

$$8.04 \text{ mol Al} \left(\frac{27.0 \text{ g}}{1 \text{ mol}} \right) = 217 \text{ g}$$

$$\underline{217 \text{ g} \approx 220 \text{ g (2sf)}}$$

e) How many grams of solid iodine are produced by the decomposition of 25.4 grams of hydrogen iodide gas? Equation: $2 \text{HI} \rightarrow \text{H}_2 + \text{I}_2$

$$25.4 \text{ g} \left(\frac{1 \text{ mol}}{127.9 \text{ g}} \right) = 0.199 \text{ mol HI}$$

$$0.199 \text{ mol HI} \left(\frac{1 \text{ mol I}_2}{2 \text{ mol HI}} \right) = 0.0993 \text{ mol I}_2 \quad \underline{25.2 \text{ g I}_2}$$

$$0.0993 \text{ mol I}_2 \left(\frac{253.8 \text{ g}}{1 \text{ mol}} \right) = 25.2 \text{ g I}_2$$

Mole Ratio And Answers

Victor M. Corman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Mole Ratio And Answers:

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