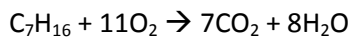


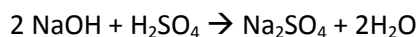
**Question One-** Complete the following tables



Mass of $\text{C}_7\text{H}_{16}$	Amount of $\text{C}_7\text{H}_{16}$	Mass of $\text{O}_2$	Amount of $\text{O}_2$	Mass of $\text{CO}_2$	Amount of $\text{CO}_2$	Mass of $\text{H}_2\text{O}$	Amount of $\text{H}_2\text{O}$
17.3 g							
		24.2 g					
				18.5 g			
						8.2 g	

**Question Two**

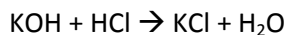
a) 20mL of unknown concentration of NaOH is titrated against  $0.103 \text{ mol L}^{-1}$  of  $\text{H}_2\text{SO}_4$



Trails	#1	#2	#3	#4
Titre (mL)	20.6	21.3	21.3	21.2

Using the results above, determine the concentration of unknown NaOH (show all working and units)

b) 15 mL of unknown concentration of HCl is titrated against  $0.0998 \text{ mol L}^{-1}$  of KOH



Trails	#1	#2	#3	#4
Titre (mL)	18.5	17.4	17.5	17.3

Using the results above, determine the concentration of unknown HCl (show all working and units)

Calculate the mass of propane required to produce 530