	Mole Ratio WS		
#	Answer the following questions and show your work, answer & units to get full credit.	#	Ans
1	$N_2 + 3H_2 \rightarrow 2NH_3$ How many moles of <b>hydrogen</b> are needed to completely react with two moles of nitrogen?	1	N <sub>2</sub> + 3 How m two m
2	$2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$ How many moles of <b>oxygen</b> are produced by the decomposition of <u>six moles of potassium chlorate</u> ?	2	2KCl How r of <u>six</u>
3	Zn + 2HCl → ZnCl <sub>2</sub> + H <sub>2</sub> How many moles of hydrogen are produced from the reaction of three moles of zinc with an excess of hydrochloric acid?	3	Zn + 2 How m three r
4	$C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$ How many moles of oxygen are necessary to react completely with four moles of propane (C <sub>3</sub> H <sub>8</sub> )?	4	C3H8 How m four m
5	$K_3PO_4 + Al(NO_3)_3 \rightarrow 3KNO_3 + AlPO_4$ How many moles of potassium nitrate are produced when two moles of potassium phosphate react with aluminum nitrate?	5	K <sub>3</sub> PO How m two mo

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