Mole Ratio WS	
#	**Answer the following questions and show your work, answer & units to get full credit.**
1	**$N_2 + 3H_2 \rightarrow 2NH_3$** How many moles of **hydrogen** are needed to completely react with two moles of nitrogen?
2	**$2KClO_3 \rightarrow 2KCl + 3O_2$** How many moles of **oxygen** are produced by the decomposition of six moles of potassium chlorate?
3	**$Zn + 2HCl \rightarrow ZnCl_2 + H_2$** How many moles of hydrogen are produced from the reaction of three moles of zinc with an excess of hydrochloric acid?
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_3H_8)?
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?

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