

## 11-1 Practice Problems

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1. Lead will react with Hydrochloric acid to produce Lead (II) Chloride and Hydrogen gas. How many moles of Hydrochloric acid are needed to completely react with 0.36-mol of lead?

2. How many moles of  $\text{HNO}_3$  will be produced when 0.51-mol of  $\text{N}_2\text{O}_5$  reacts according to the following equation?  
 $\text{N}_2\text{O}_5 + \text{H}_2\text{O} \rightarrow 2\text{HNO}_3$

3. Iron will react with Oxygen Gas to produce  $\text{Fe}_2\text{O}_3$ . How many moles of  $\text{Fe}_2\text{O}_3$  will be produced if 0.18-mol of Fe reacts?

4. How many moles of NaBr will be produced when 0.69-mol of Bromine reacts according to the following equation?  
 $\text{Br}_2 + 2\text{NaI} \rightarrow 2\text{NaBr} + \text{I}_2$

5. Phosphorus will react with Bromine to produce Phosphorus Tribromide. How many moles of Phosphorus Tribromide will be produced if 0.78-mol of Bromine is reacted?

6. Carbon will react with Zinc Oxide to produce Zinc and Carbon Dioxide. How many moles of carbon dioxide will be produced if 0.38-mol of  $\text{ZnO}$  is completely reacted?

7. How many moles of oxygen will be needed to react with 0.38-mol of  $\text{C}_3\text{H}_8$  according to the following equation?  
 $\text{C}_3\text{H}_8 + 5\text{O}_2 \rightarrow 3\text{CO}_2 + 4\text{H}_2\text{O}$

8. Nitrogen gas can react with Hydrogen gas to produce ammonia. How many moles of Nitrogen will be needed to produce 0.48-mol of  $\text{NH}_3$ ?

9. How many moles of hydrogen will be produced if 0.44-mol of  $\text{CaH}_2$  reacts according to the following equation?  
 $\text{CaH}_2 + 2\text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2 + 2\text{H}_2$

10. How many moles of water will be produced if 2.35-mol of oxygen reacts according to the following equation?  
 $2\text{C}_6\text{H}_6 + 15\text{O}_2 \rightarrow 12\text{CO}_2 + 6\text{H}_2\text{O}$

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**ML Morrison**



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