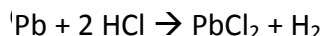


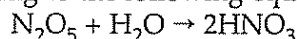
## 11-1 Practice Problems

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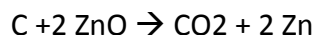
1. Lead will react with hydrochloric acid to produce lead(II) chloride and hydrogen. How many moles of hydrochloric acid are needed to completely react with 0.36 mol of lead?



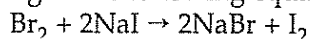
2. How many moles of  $\text{HNO}_3$  will be produced when 0.51 mol of  $\text{N}_2\text{O}_5$  reacts according to the following equation?



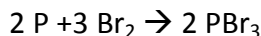
3. Carbon will react with zinc oxide to produce zinc and carbon dioxide. How many moles of carbon dioxide will be produced if 0.38 mol of  $\text{ZnO}$  is completely reacted?



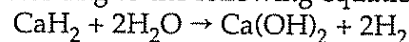
4. How many moles of  $\text{NaBr}$  will be produced when 0.69 mol of bromine reacts according to the following equation?



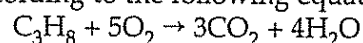
5. Phosphorus will react with bromine to produce phosphorus tribromide. How many moles of phosphorus tribromide will be produced if 0.78 mol of bromine is reacted?



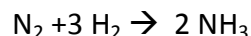
6. How many moles of hydrogen will be produced if 0.44 mol of  $\text{CaH}_2$  reacts according to the following equation?



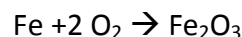
7. How many moles of oxygen will be needed to react with 0.38 mol of  $\text{C}_3\text{H}_8$  according to the following equation?



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



9. Iron will react with oxygen 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  $\text{Fe}$  reacts?



10. How many moles of water will be produced if 2.35 mol of oxygen reacts according to the following equation?

