

Mole to Mole Ratio

Name: _____		Date: _____		
<p>Directions:</p> <p>1. Write the balanced chemical equation for the reaction.</p> <p>2. Identify the mole ratio between the reactants and products.</p> <p>3. Use the mole ratio to determine the number of moles of the other reactant or product.</p>		<p>Problem 1:</p> <p>How many moles of H_2 are needed to react with 2 moles of O_2 to form H_2O?</p> <p>Problem 2:</p> <p>How many moles of CO_2 are produced from 3 moles of C_3H_8 reacting with O_2?</p> <p>Problem 3:</p> <p>How many moles of Fe_2O_3 are produced from 4 moles of Fe reacting with O_2?</p> <p>Problem 4:</p> <p>How many moles of H_2O are produced from 5 moles of C_2H_6 reacting with O_2?</p> <p>Problem 5:</p> <p>How many moles of Al_2O_3 are produced from 6 moles of Al reacting with O_2?</p>		
<p>Answers:</p> <p>1. $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$</p> <p>2. $3\text{C}_3\text{H}_8 + 10\text{O}_2 \rightarrow 9\text{CO}_2 + 8\text{H}_2\text{O}$</p> <p>3. $4\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$</p> <p>4. $2\text{C}_2\text{H}_6 + 7\text{O}_2 \rightarrow 4\text{CO}_2 + 6\text{H}_2\text{O}$</p> <p>5. $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$</p>		<p>Answers:</p> <p>1. 4 moles of H_2</p> <p>2. 9 moles of CO_2</p> <p>3. 2 moles of Fe_2O_3</p> <p>4. 6 moles of H_2O</p> <p>5. 3 moles of Al_2O_3</p>		

Includes:

- COMPLETE KEY
- Introduction to mole to mole ratio using s'mores
- Practice identifying mole ratio
- Practicing identifying the number of moles based on the coefficient
- 5 independent practice problems

Introduction To The Mole Article Answers

Joseph Davidovits



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