

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## CHAPTER 12

## STUDY GUIDE FOR CONTENT MASTERY

## Section 12.3 Limiting Reactants

In your textbook, read about why reactions stop and how to determine the limiting reactant.

Study the diagram showing a chemical reaction and the chemical equation that represents the reaction. Then complete the table. Show your calculations for questions 15–17 in the space below the table.



The molar masses of  $\text{O}_2$ ,  $\text{NO}$ , and  $\text{NO}_2$  are 32.00 g/mol, 30.01 g/mol, and 46.01 g/mol, respectively.

Amount of $\text{O}_2$	Amount of $\text{NO}$	Amount of $\text{NO}_2$	Limiting Reactant	Amount and Mass of Excess Reactant
1 molecule	2 molecules	2 molecules	none	none
2 molecules	4 molecules	4 molecules	$\text{NO}$	2 molecules $\text{O}_2$
2 molecules	4 molecules	4 molecules	1. $\text{O}_2$	2. 4 molecules $\text{NO}$
1.00 mol	2.00 mol	2.00 mol	3. none	4. none
4.00 mol	6.00 mol	4.00 mol	5. $\text{NO}$	6. 2.00 mol $\text{O}_2$
0.00 mol	0.00 mol	0.00 mol	7. $\text{NO}$	8. 1.00 mol $\text{O}_2$
1.00 mol	0.00 mol	0.00 mol	9. $\text{O}_2$	10. 0.00 mol $\text{NO}$
0.000 mol	0.000 mol	0.000 mol	11. $\text{NO}$	12. 0.000 mol $\text{O}_2$
32.00 g	60.02 g	92.02 g	13. none	14. none
64.00 g	60.02 g	92.02 g	15. $\text{O}_2$	16. 30.02 g $\text{NO}$
64.00 g	30.01 g	38.76 g	17. $\text{O}_2$	18. 1.24 g $\text{NO}$

balanced equation mole ratio = 2 mol  $\text{NO}$ /1 mol  $\text{O}_2$

$10.00 \text{ g } \text{O}_2 \times 1 \text{ mol } \text{O}_2 / 32.00 \text{ g } \text{O}_2 = 0.3125 \text{ mol } \text{O}_2$

$20.00 \text{ g } \text{NO} \times 1 \text{ mol } \text{NO} / 30.01 \text{ g } \text{NO} = 0.6664 \text{ mol } \text{NO}$

actual mole ratio =  $0.6664 \text{ mol } \text{NO} / 0.3125 \text{ mol } \text{O}_2 = 2.132 \text{ mol } \text{NO} / 1.000 \text{ mol } \text{O}_2$

Because the actual mole ratio of  $\text{NO}:\text{O}_2$  is larger than the balanced equation mole ratio of  $\text{NO}:\text{O}_2$ , there is an excess of  $\text{NO}$ ;  $\text{O}_2$  is the limiting reactant.

Mass of  $\text{NO}$  used =  $0.3125 \text{ mol } \text{O}_2 \times 2 \text{ mol } \text{NO} / 1 \text{ mol } \text{O}_2 = 0.6250 \text{ mol } \text{NO}$

$0.6250 \text{ mol } \text{NO} \times 30.01 \text{ g } \text{NO} / 1 \text{ mol } \text{NO} = 18.76 \text{ g } \text{NO}$

Mass of  $\text{NO}_2$  produced =  $0.6250 \text{ mol } \text{NO}_2 \times 46.01 \text{ g } \text{NO}_2 / 1 \text{ mol } \text{NO}_2 = 28.76 \text{ g } \text{NO}_2$

Excess  $\text{NO} = 20.00 \text{ g } \text{NO} - 18.76 \text{ g } \text{NO} = 1.24 \text{ g } \text{NO}$

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## CHAPTER 13

## STUDY GUIDE FOR CONTENT MASTERY

## Section 13.4 Percent Yield

In your textbook, read about the yields of products.

Study the diagram and the example problem.



**Example Problem:** The following chemical equation represents the production of palladium, a valuable metal in the manufacturing of some semiconductor devices.



In one experiment, the reaction yielded 7.42 g of the metal from a 7.00-g sample of palladium. Determine the percent yield of this reaction. The molar masses of  $\text{Ga}$  and  $\text{Ga}_2\text{O}_3$  are 69.72 g/mol and 157.44 g/mol, respectively.

Use the information in the diagram and example problem to evaluate each value or expression below. If the value or expression is correct, write correct. If it is incorrect, write the correct value or expression.

1. actual yield unknown 7.42 g  $\text{Ga}_2\text{O}_3$
2. mass of reactant: 7.00 g  $\text{Ga}$  correct
3. number of moles of reactant:  $7.00 \text{ g } \text{Ga} \times \frac{69.72 \text{ g } \text{Ga}}{1 \text{ mol } \text{Ga}} = 1 \text{ mol } \text{Ga}$  7.00 g  $\text{Ga} \times 1 \text{ mol } \text{Ga} / 69.72 \text{ g } \text{Ga}$
4. number of moles of product:  $0.100 \text{ mol } \text{Ga} \times \frac{2 \text{ mol } (\text{Ga}_2\text{O}_3)}{1 \text{ mol } \text{Ga}} = 0.200 \text{ mol } \text{Ga}_2\text{O}_3$  0.100 mol  $\text{Ga} \times \frac{2 \text{ mol } \text{Ga}_2\text{O}_3}{1 \text{ mol } \text{Ga}}$
5. theoretical yield:  $0.200 \text{ mol } (\text{Ga}_2\text{O}_3) \times \frac{157.44 \text{ g } (\text{Ga}_2\text{O}_3)}{1 \text{ mol } (\text{Ga}_2\text{O}_3)} = 31.49 \text{ g } \text{Ga}_2\text{O}_3$  correct
6. percent yield:  $\frac{7.42 \text{ g } (\text{Ga}_2\text{O}_3)}{31.49 \text{ g } (\text{Ga}_2\text{O}_3)} \times 100 = 23.56\%$  7.42 g  $\text{Ga}_2\text{O}_3 / 31.49 \text{ g } \text{Ga}_2\text{O}_3 \times 100$

# Mcgraw Hill Companies Night Study Guide

**Annelies Wilder-Smith**



## **Mcgraw Hill Companies Night Study Guide:**

## **Mcgraw Hill Companies Night Study Guide** Book Review: Unveiling the Power of Words

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