

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 O_2 , NO , and NO_2 are 32.00 g/mol, 30.01 g/mol, and 46.01 g/mol, respectively.

Amount of O_2	Amount of NO	Amount of NO_2	Limiting Reactant	Amount and Mass of Excess Reactant
1 molecule	2 molecules	2 molecules	none	none
4 molecules	4 molecules	4 molecules	NO	2 molecules O_2
2 molecules	4 molecules	4 molecules	O_2	4 molecules NO
1.00 mol	2.00 mol	2.00 mol	none	none
4.00 mol	4.00 mol	4.00 mol	NO	2.00 mol O_2
0.00 mol	0.00 mol	0.00 mol	NO	0.00 mol O_2
1.00 mol	0.00 mol	0.00 mol	O_2	0.00 mol NO
0.000 mol	0.000 mol	0.000 mol	NO	0.000 mol O_2
32.00 g	60.02 g	92.02 g	none	none
64.00 g	60.02 g	46.01 g	O_2	30.12 g NO
64.00 g	30.01 g	28.76 g	O_2	1.24 g NO

balanced equation mole ratio = 2 mol NO /1 mol O_2

$10.00 \text{ g } O_2 \times 1 \text{ mol } O_2 / 32.00 \text{ g } O_2 = 0.3125 \text{ mol } O_2$

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

actual mole ratio = $0.6664 \text{ mol } NO / 0.3125 \text{ mol } O_2 = 2.132 \text{ mol } NO / 1.000 \text{ mol } O_2$

Because the actual mole ratio of NO/O_2 is larger than the balanced equation mole ratio of NO/O_2 , there is an excess of NO ; O_2 is the limiting reactant.

Mass of NO used = $0.3125 \text{ mol } O_2 \times 2 \text{ mol } NO / 1 \text{ mol } O_2 = 0.6250 \text{ mol } NO$

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

Mass of NO_2 produced = $0.6250 \text{ mol } NO \times 46.01 \text{ g } NO_2 / 1 \text{ mol } NO = 28.76 \text{ g } NO_2$

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

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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 oxide from a 7.00-g sample of gallium. Determine the percent yield of this reaction. The molar masses of Ga and Ga_2O_3 are 69.72 g/mol and 187.44 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 Ga_2O_3
2. mass of reactant: 7.00 g Ga correct
3. number of moles of reactant: $7.00 \text{ g } Ga \times \frac{1 \text{ mol } Ga}{69.72 \text{ g } Ga} = 0.100 \text{ mol } Ga$
4. number of moles of product: $0.100 \text{ mol } Ga \times \frac{2 \text{ mol } Ga_2O_3}{1 \text{ mol } Ga} = 0.200 \text{ mol } Ga_2O_3$
5. theoretical yield: $0.200 \text{ mol } Ga_2O_3 \times \frac{187.44 \text{ g } Ga_2O_3}{1 \text{ mol } Ga_2O_3} = 37.49 \text{ g } Ga_2O_3$ correct
6. percent yield: $\frac{7.42 \text{ g } Ga_2O_3}{37.49 \text{ g } Ga_2O_3} \times 100 = 19.8\%$

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Stuart Calle



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