

## *Chemistry Stoichiometry Problems And Answers*

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**Chemistry Stoichiometry Problems And Answers**

KEY Chemistry: Stoichiometry – Problem Sheet 1 Directions: Solve each of the following problems. Show your work, including proper units, to earn full credit. 1. Silver and nitric acid react according to the following balanced equation:

**Stoichiometry: Problem Sheet 1 - FREE Chemistry Materials ...**

Practice Problems: Stoichiometry. Balance the following chemical reactions: Hint a.  $\text{CO} + \text{O}_2 \rightarrow \text{CO}_2$  b.  $\text{KNO}_3 \rightarrow \text{KNO}_2 + \text{O}_2$  c.  $\text{O}_3 \rightarrow \text{O}_2$  d.  $\text{NH}_4\text{NO}_3 \rightarrow \text{N}_2\text{O} + \text{H}_2\text{O}$  e.  $\text{CH}_3\text{NH}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{N}_2$  Hint f.  $\text{Cr}(\text{OH})_3 + \text{HClO}_4 \rightarrow \text{Cr}(\text{ClO}_4)_3 + \text{H}_2\text{O}$  Write the balanced chemical equations of each reaction:

**Practice Problems: Stoichiometry - Department of Chemistry**

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**Ideal stoichiometry (practice) | Khan Academy**

Chemistry: Stoichiometry – Problem Sheet 2 KEY 9)  $2.24 \times 10^{23}$  molecules | 1 mol |  $6.02 \times 10^{23}$  molecules | 1 mol | 71 g | 546 g | 292 g | 108 g | 63.5 g

**Stoichiometry: Problem Sheet 2 - FREE Chemistry Materials ...**

Problem :  $2\text{Al} + 3\text{Cl}_2 \rightarrow 2\text{AlCl}_3$  When 80 grams of aluminum is reacted with excess chlorine gas, how many formula units of  $\text{AlCl}_3$  are produced?

**SparkNotes: Stoichiometric Calculations: Problems**

Stoichiometry: Mixed Problems (KEY) 1)  $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$  What volume of  $\text{NH}_3$  at STP is produced if 25.0 of  $\text{N}_2$  is reacted with an excess of  $\text{H}_2$ ? 3 3 3 2 2 2 40.0L  $\text{NH}_3$  1mol  $\text{NH}_3$  22.4L  $\text{NH}_3$  1mol  $\text{N}_2$  2mol  $\text{NH}_3$  28.0g  $\text{N}_2$  25.0g  $\text{N}_2$  1mol  $\text{N}_2$   $\times \times \times = 2$ )  $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$  If 5.0g of  $\text{KClO}_3$  is decomposed, what volume of  $\text{O}_2$  is produced at STP? 2

**Stoichiometry: Mixed Problems (KEY)**

$5.93 \times 10^3$  kg of butane reacts, in a combustion reaction, with  $8.74 \times 10^{14} \text{ cm}^3$  of oxygen to form carbon dioxide and water So therefore the balance equation is  $2\text{C}_4\text{H}_{10} + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$  Determine the limiting reactant Calculate number of grams of excess reactant that remain after the reaction has gone to completion. Can someone guide me through this problem step by step, please?

**Stoichiometry Practice Problem Chemistry? | Yahoo Answers**

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Honors Chemistry Extra Stoichiometry Problems 1. Silver nitrate reacts with barium chloride to form silver chloride and barium nitrate. a. Write and balance the chemical equation.  $2\text{AgNO}_3 + \text{BaCl}_2 \rightarrow 2\text{AgCl} + \text{Ba}(\text{NO}_3)_2$  b. If 39.02 grams of barium chloride are reacted in an excess of silver nitrate, how many

**Honors Chemistry Extra Stoichiometry Problems**

Stoichiometry Worksheet #1 Answers 1. Given the following equation:  $2\text{C}_4\text{H}_{10} + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$ , show what the following molar ratios should be. a.  $\text{C}_4\text{H}_{10} / \text{O}_2$  b.  $\text{O}_2 / \text{CO}_2$  c.  $\text{O}_2 / \text{H}_2\text{O}$  d.  $\text{C}_4\text{H}_{10} / \text{CO}_2$  e.  $\text{C}_4\text{H}_{10} / \text{H}_2\text{O}$  2. Given the following equation:  $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$  a. How many moles of  $\text{O}_2$  can be produced by ...

**Stoichiometry Worksheet #1 Answers**

Remember it is a MC test, use the answers ... Practice Test Ch 3 Stoichiometry Name\_\_\_\_Per\_\_\_\_  
 $2\text{MnO}_2 + 4\text{KOH} + \text{O}_2 + \text{Cl}_2 \rightarrow 2\text{KMnO}_4 + 2\text{KCl} + 2\text{H}_2\text{O}$  9. For the reaction above, there is 100. g

of each reactant ... 7. c First you must realize this is a limiting reactant problem. You can tell this since you are given quantities for both reactants.

### Practice Test Ch 3 Stoichiometry Name Per

Honors Chemistry Worksheet 3 Stoichiometry Practice Problems Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

Instructions: Balance the following chemical equations and then determine the missing information for each of the conditions given. The four questions related to each equation are independent of one another.

### Honors Chemistry Worksheet 3 Stoichiometry Practice Problems

Stoichiometry is the tool for answering these questions. Stoichiometry The study of quantitative relationships between the amounts of reactants used and amounts of products formed by a chemical reaction is called stoichiometry.

### Chapter 11: Stoichiometry

Answer the following stoichiometry-related questions: 12) Write the balanced equation for the reaction of acetic acid with aluminum hydroxide to form water and aluminum acetate: 13) Using the equation from problem #12, determine the mass of aluminum acetate that can be made if I do this reaction with 125 grams of acetic acid

### Stoichiometry Practice Worksheet - Hazleton Area School ...

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