

Stoichiometry Worksheet # 1

1) Glucose is used as a source of energy by the human body. The overall reaction in the body is



Calculate the number of moles of oxygen needed to oxidize 12.5 g of $\text{C}_6\text{H}_{12}\text{O}_6$.

2) Ammonia is synthesized from hydrogen and nitrogen according to the following equation.



If an excess of nitrogen is reacted with 3.41 moles of hydrogen gas, how many grams of ammonia (NH_3) can be produced?

3) Assume that in the decomposition of potassium chlorate, KClO_3 ,



80.5 moles of O_2 form. How many grams of potassium chlorite, the other product would be formed?

4) In a single displacement reaction,



9.23 moles of aluminum react with excess hydrochloric acid. How many moles of hydrogen will be produced?

5) The compound "Cisplatin" $\text{PtCl}_2(\text{NH}_3)_2$, has been found to be effective in treating some types of cancer. It can be synthesized using the following reaction



A. How many moles of "cisplatin" can be produced from 2.50 g K_2PtCl_4 ?

B. How many moles of NH_3 would be needed if 3.8 moles of K_2PtCl_4 were present?

Chapter 12 Supplemental Problems Stoichiometry

Answer Key

Chunlong Zhang



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Chemistry McGraw-Hill Staff,2001-03 **Soil and Groundwater Remediation** Chunlong Zhang,2019-10-30 An introduction to the principles and practices of soil and groundwater remediation Soil and Groundwater Remediation offers a comprehensive and up to date review of the principles practices and concepts of sustainability of soil and groundwater remediation The book starts with an overview of the importance of groundwater resource quality contaminant sources types and the scope of soil and groundwater remediation It then provides the essential components of soil and groundwater remediation with easy to understand design equations calculations and the practical applications The book contains information on remediation basics such as subsurface chemical behaviors soil and groundwater hydrology and characterization regulations cost analysis and risk assessment The author explores various conventional and innovative remediation technologies including pump and treat soil vapor extraction bioremediation incineration thermally enhanced techniques soil washing flushing and permeable reactive barriers The book also examines the modeling of groundwater flow and contaminant transport in saturated and unsaturated zones This important book Presents the current challenges of remediation practices Includes up to date information about the low cost risk based sustainable remediation practices as well as institutional control and management Offers a balanced mix of the principles practices and sustainable concepts in soil and groundwater remediation Contains learning objectives discussions of key theories and example problems Provides illustrative case studies and recent research when remediation techniques are introduced Written for undergraduate seniors and graduate students in natural resource earth science environmental science engineering and environmental management Soil and Groundwater Remediation is an authoritative guide to the principles and components of soil and groundwater remediation that is filled with worked and practice problems **Chemistry** Arnold B. Loebel,1978 **Holt Chemistry** Ralph Thomas Myers,2004 *Supplemental Problems Set/student's Version for Jones's Organic Chemistry* Timo Ovaska,2000 **CH. 4 SUPPLEMENTAL PROBLEMS SOLUTIONS.** ,2004

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