

Name: _____
Hour: _____ Date: _____

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:



- A. How many moles of silver are needed to react with 40 moles of nitric acid?
- B. From the amount of nitric acid given in Part A, how many moles of silver nitrate will be produced?
- C. From the amount of nitric acid given in Part A, how many moles of water will be produced?
- D. From the amount of nitric acid given in Part A, how many moles of nitrogen monoxide will be made?

2. Given the balanced equation: $2 \text{ N}_2\text{H}_4\text{(l)} + \text{N}_2\text{O}_4\text{(l)} \rightarrow 3 \text{ N}_2\text{(g)} + 4 \text{ H}_2\text{O(g)}$

- A. How many moles of dinitrogen tetrahydride are required to produce 57 moles of nitrogen?
- B. How many moles of dinitrogen tetroxide are required to produce 57 moles of nitrogen?
- C. How many moles of water are produced when 57 moles of nitrogen are made?

3. Calculate the mass of aluminum oxide produced when 3.75 moles of aluminum burn in oxygen.

Answers:

1A. 30 mol Ag
1B. 30 mol AgNO₃

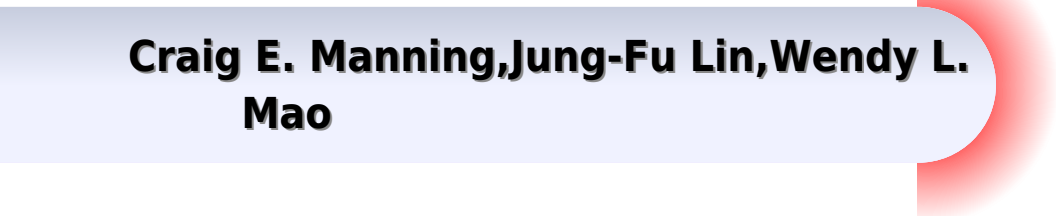
1C. 20 mol H₂O
1D. 10 mol NO

2A. 38 mol N₂H₄
2B. 19 mol N₂O₄

2C. 76 mol H₂O
3. 191 g Al₂O₃

Work For Section 3 Stoichiometry

**Craig E. Manning, Jung-Fu Lin, Wendy L.
Mao**



Work For Section 3 Stoichiometry:

Carbon in Earth's Interior Craig E. Manning, Jung-Fu Lin, Wendy L. Mao, 2020-04-03 Carbon in Earth's fluid envelopes, the atmosphere, biosphere, and hydrosphere plays a fundamental role in our planet's climate system and a central role in biology, the environment, and the economy of the Earth system. The source and original quantity of carbon in our planet is uncertain, as are the identities and relative importance of early chemical processes associated with planetary differentiation. Numerous lines of evidence point to the early and continuing exchange of substantial carbon between Earth's surface and its interior, including diamonds, carbon-rich mantle-derived magmas, carbonate rocks in subduction zones, and springs carrying deeply sourced carbon-bearing gases. Thus, there is little doubt that a substantial amount of carbon resides in our planet's interior. Yet while we know it must be present, carbon's forms, transformations, and movements at conditions relevant to the interiors of Earth and other planets remain uncertain and untapped. Volume highlights include: Reviews key general topics such as carbonate minerals, the deep carbon cycle, and carbon in magmas or fluids. Describes new results at the frontiers of the field with presenting results on carbon in minerals, melts, and fluids at extreme conditions of planetary interiors. Brings together emerging insights into carbon's forms, transformations, and movements through study of the dynamics, structure, stability, and reactivity of carbon-based natural materials. Reviews emerging new insights into the properties of allied substances that carry carbon, into the rates of chemical and physical transformations, and into the complex interactions between moving fluids, magmas, and rocks to the interiors of Earth and other planets. Spans the various chemical redox states of carbon from reduced hydrocarbons to zero-valent diamond and graphite to oxidized CO₂ and carbonates. Captures and synthesizes the exciting results of recent focused efforts in an emerging scientific discipline. Reports advances over the last decade that have led to a major leap forward in our understanding of carbon science. Compiles the range of methods that can be tapped, from the deep carbon community, which includes experimentalists, first principles theorists, thermodynamic modelers, and geodynamicists. Represents a reference point for future deep carbon science research. *Carbon in Planetary Interiors* will be a valuable resource for researchers and students who study the Earth's interior. The topics of this volume are interdisciplinary and therefore will be useful to professionals from a wide variety of fields in the Earth Sciences, such as mineral physics, petrology, geochemistry, experimentalists, first principles theorists, thermodynamics, material science, chemistry, geophysics, and geodynamics.

Proceedings of the Joint Symposium on Stationary Combustion NO_x Control, 1981 **Energy Research Abstracts**, 1992-04 *Basic Concepts of Chemistry* Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book. It places a stronger emphasis on outcomes assessment, which is the driving force for many of the new features. Each section focuses on the development and assessment of one or two specific objectives. Within each section, a specific objective is included, an anticipatory set to orient the reader, content discussion from established authors, and guided practice problems for relevant objectives. These features

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Sol-Gel Processing for Conventional and Alternative Energy Mario Aparicio,Andrei Jitianu,Lisa C. Klein,2012-02-04 Sol Gel Processing for Conventional and Alternative Energy is a comprehensive source of information on the use of sol gel processing in materials in energy systems conversion storage and generation The volume editors include numerous applications primarily in nuclear fuel processing electrolytes for fuel cells and dye sensitized solar cells DSSC In addition to examining contemporary processing properties and industrial applications Sol Gel Processing for Conventional and Alternative Energy identifies materials challenges presented by conventional and alternative energy generation that require new materials and innovative processing Each chapter is written by an internationally respected researcher The book provides a state of the art treatment of different aspects of materials for energy production with a focus on processing and covers related topics such as carbon sequestration clean energy and biofuels

Studies of High-Temperature Superconductors - Advances in Research and Applications Anant Narlikar,2001 Studies of High Temperature Superconductors Volume 36 The BSCCO System II *General Electric Atomic Power* ,1962 [Radiation Effects in Borides](#) E. W. Hoyt,D. L. Zimmerman,1962 [Journal of Research of the National Bureau of Standards](#) United States. National Bureau of Standards,1977

Embracing the Beat of Phrase: An Emotional Symphony within **Work For Section 3 Stoichiometry**

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