

# Mole Conversions Worksheet #1

1. Mole  $\rightarrow$  Mass Conversions – using molar mass of each substance, convert the following quantities.

- |  |   |
|--|---|
| a. 10.0 mol Cr <b>520 g</b>                    | f. 0.160 mol $\text{H}_2\text{O}$ <b>2.88 g</b>   |
| b. 3.32 mol K <b>130 g</b>                     | g. 5.08 mol $\text{Ca}(\text{NO}_3)_2$ <b>834 g</b>   |
| c. $2.20 \times 10^{-5}$ mol Sn <b>0.261 g</b> | h. 15.0 mol $\text{H}_2\text{SO}_4$ <b>1470 g</b>   |
| d. 0.720 mol Be <b>6.48 g</b>                  | i. $4.52 \times 10^{-5}$ mol $\text{C}_2\text{H}_6$ <b><math>1.27 \times 10^{-3}</math> g</b> |
| e. 2.40 mol $\text{N}_2$ <b>67.2 g</b>         | j. 0.0112 mol $\text{K}_2\text{CO}_3$ <b>1.55 g</b>   |

2. Mass  $\rightarrow$  Mole Conversions – using molar mass of each substance convert the following quantities.

- |   |   |
|---|---|
| a. 72.0 g Ar <b>1.80 mol</b>  | f. 27.4 g $\text{NO}_2$ <b>0.596 mol</b>  |
| b. $3.70 \times 10^{-3}$ g B <b><math>3.43 \times 10^{-2}</math> mol</b>  | g. 5.00 g $\text{H}_2$ <b>2.50 mol</b>  |
| c. 187 g Al <b>6.93 mol</b>   | h. $2.64 \times 10^{-4}$ g $\text{Li}_3\text{PO}_4$ <b><math>2.28 \times 10^{-6}</math> mol</b> |
| d. 333 g $\text{SnF}_2$ <b>2.13 mol</b>                                   | i. 11.0 g $\text{CH}_4$ <b>0.688 mol</b>  |
| e. $7.21 \times 10^{-2}$ g He <b><math>1.80 \times 10^{-2}</math> mol</b> | j. 847 g $(\text{NH}_4)_2\text{CO}_3$ <b>8.82 mol</b>   |

3. What is the volume of the following gases?

- a. 5.40 mol  $\text{O}_2$  **121 L**  
b.  $3.20 \times 10^{-2}$  mol  $\text{CO}_2$  **0.717 L**  
c. 0.960 mol  $\text{SO}_3$  **21.5 L**

4. How many moles are in each of the following volumes?

- a. 89.6 L Ne **4.00 mol**  
b.  $1.00 \times 10^3$  L  $\text{C}_2\text{H}_6$  **44.6 mol**  
c.  $5.42 \times 10^1$   $\text{F}_2$   **$2.42 \times 10^{-2}$  mol**

5. Find the number of moles in each of the number of representative particles.

- a.  $1.20 \times 10^{25}$  atoms of P **19.9 mol**  
b.  $3.87 \times 10^{23}$  molecules of  $\text{AlF}_3$   **$6.45 \times 10^{-3}$  mol**  
c.  $4.81 \times 10^{24}$  molecules of  $\text{NH}_3$   **$7.99 \times 10^{-3}$  mol**

6. How many representative particles are in each of the following mole quantities?

- a. 1.24 mol  $\text{Cl}_2$   **$7.46 \times 10^{23}$  molecules**  
b.  $4.20 \times 10^{-5}$  mol  $\text{K}_2\text{S}$   **$2.53 \times 10^{23}$  molecules**  
c. 34.02 mol  $\text{Ca}(\text{OH})_2$   **$2.048 \times 10^{25}$  molecules**

7. Convert the following two-step quantities, converting first to moles and then to the desired quantity.

- a. Find the number of molecules in 60.0 g of  $\text{N}_2\text{O}$ .  **$8.21 \times 10^{23}$  molecules**  
b. Find the volume of  $3.24 \times 10^{22}$  molecules of Ne. **1.21 L**  
c. Find the mass of 18.0 L of  $\text{CH}_4$ . **12.9 g**  
d. Find the volume of 835 g of  $\text{SO}_3$ . **234 L**  
e. Find the mass of one atom of nickel.  **$1 \times 10^{-22}$  g**

# Answer Key Mass Mole Conversion Worksheet

**Julie C. Gilbert**



## **Answer Key Mass Mole Conversion Worksheet:**

**Holt Chemistry** Ralph Thomas Myers, 2004      **Handbook on Material and Energy Balance Calculations in Material Processing** Arthur E. Morris, Gordon Geiger, H. Alan Fine, 2012-01-03

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*Chemical Process Engineering Volume 1* Rahmat Sotudeh-Gharebagh, A. Kayode Coker, 2022-05-03

Written by two of the most prolific and respected chemical engineers in the world, this groundbreaking two volume set is the new standard in the industry, offering engineers and students alike the most up to date comprehensive and state of the art coverage of processes and best practices in the field today. This first new volume in a two volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design. Useful not only for students, professors, scientists and practitioners, especially process, chemical, mechanical and metallurgical engineers, it is also a valuable reference for other engineers, consultants, technicians and scientists concerned about various aspects of industrial design. The text can be considered as a complementary text to process design for senior and graduate students as well as a hands on reference work or refresher for engineers at entry level. The contents of the book can also be taught in intensive workshops in the oil, gas, petrochemical, biochemical and process industries. The book provides a detailed description and hands on experience on process design in chemical engineering and it is an integrated text that focuses on practical design with new tools such as Excel spreadsheets and UniSim simulation software. Written by two industry and university's most trustworthy and well known authors, this book is the new standard in chemical, biochemical, pharmaceutical, petrochemical and petroleum refining. Covering design, analysis, simulation, integration and perhaps most importantly the practical application of Microsoft Excel and UniSim software, this is the most comprehensive and up to date coverage of all of the latest developments in the industry. It is a must have for any engineer or student's library.

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11

Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content, lively explorations and a wealth of hands on activities take students' understanding of science beyond the page and into the world around them. Now includes even more technology tools and activities to support differentiated instruction.

*Science and Mathematics Lab Manual*, 2002-05

Includes 30 labs for students to use to connect mathematics to science concepts.

**Science Spectrum** Holt, Rinehart & Winston, Holt, Rinehart and Winston

Staff,2003-03      *The Software Encyclopedia* ,1986      *Chemical Engineering Design* Ray Sinnott,Gavin Towler,2019-05-26

Chemical Engineering Design SI Edition is one of the best known and most widely used textbooks available for students of chemical engineering The enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance and clarity This new edition provides coverage of the latest aspects of process design operations safety loss prevention equipment selection and much more including updates on plant and equipment costs regulations and technical standards Includes new content covering food pharmaceutical and biological processes and the unit operations commonly used Features expanded coverage on the design of reactors Provides updates on plant and equipment costs regulations and technical standards Integrates coverage with Honeywell s UniSim software for process design and simulation Includes online access to Engineering s Cleopatra cost estimating software      **Holt Science and Technology** Holt Rinehart & Winston,2004-02      *Data Sources* ,2000      **INIS Atomindex** ,1995      **5 Steps Chemistry Workbook Series Book 2: Mighty Mole Concepts** Julie C. Gilbert,2022-03-07

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