

## Practicing the Mole - - Even Problems Answer Key

*Calculate the mass in grams of each of the following:*

2. 8.00 moles of aluminum

$$\frac{8.00 \text{ mol} \mid 26.98 \text{ g}}{1 \text{ mol}} = 216 \text{ g Al}$$

6. 7.00 moles of iodine (I<sub>2</sub>)

$$\frac{7.00 \text{ mol} \mid 253.8 \text{ g}}{1 \text{ mol}} = 1,780 \text{ g I}_2$$

4. 2.00 x 10<sup>2</sup> moles of chlorine (Cl<sub>2</sub>)

$$\frac{200. \text{ mol} \mid 70.90 \text{ g}}{1 \text{ mol}} = 14,200 \text{ g Cl}_2$$

8. 9.20 moles of iron

$$\frac{9.20 \text{ mol} \mid 55.85 \text{ g}}{1 \text{ mol}} = 514 \text{ g Fe}$$

*Calculate the number of moles of atoms in each of the following:*

10. 281 g of iron

$$\frac{281 \text{ g} \mid 1 \text{ mol}}{55.85 \text{ g}} = 5.03 \text{ mol Fe}$$

14. 93.0 g of phosphorus

$$\frac{93.0 \text{ g} \mid 1 \text{ mol}}{30.97 \text{ g}} = 3.00 \text{ mol P}$$

12. 72.0 g of magnesium

$$\frac{72.0 \text{ g} \mid 1 \text{ mol}}{24.31 \text{ g}} = 2.96 \text{ mol Mg}$$

16. 1035 g of lead

$$\frac{1035 \text{ g} \mid 1 \text{ mol}}{207.2 \text{ g}} = 4.995 \text{ mol Pb}$$

*Calculate the number of atoms in each of the following:*

18. 5.40 moles of iron

$$\frac{5.40 \text{ mol} \mid 6.022 \times 10^{23} \text{ atoms}}{1 \text{ mole}}$$

$$= 3.25 \times 10^{24} \text{ atoms Fe}$$

20. 10.0 moles of titanium

$$\frac{10.0 \text{ mol} \mid 6.022 \times 10^{23} \text{ atoms}}{1 \text{ mole}}$$

$$= 6.02 \times 10^{24} \text{ atoms Ti}$$

# Chemistry Inquiry Skill Practice Answers

**JE Gale**



## **Chemistry Inquiry Skill Practice Answers:**

**Holt Chemistry** Ralph Thomas Myers,2004      **Chemfile Skills Practice Experiments** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006      Critical Skills for Environmental Professionals Jennifer Pontius,Alan McIntosh,2019-12-20 This textbook focuses on a set of skills based learning outcomes common among undergraduate environmental programs It covers critical scientific skills and ways of thinking that bridge the gap between the knowledge based content of introductory environmental textbooks and the professional skills students of the environment need to succeed in both their academic programs and professional careers This emphasis on skills is gaining more traction among academic programs across the country as they shift focus from knowledge delivery to learning outcomes and professional competencies The book features clear methodological frameworks engaging practice exercises and a range of assessment case studies suitable for use across academic levels For introductory levels this text uses guided practice exercises to expose students to the skills they will need to master At the capstone level this text allows students to apply the knowledge they have gained to real world issues and to evaluate their competency in key programmatic learning outcomes A detailed answer key with rubrics customized for specific questions and sample answers at various competency levels is available to verified course instructors Access to these answer key resources can be obtained by contacting the Springer Textbook Team at Textbooks springer com

**The Language of Science Education** William F. McComas,2013-12-30 The Language of Science Education An Expanded Glossary of Key Terms and Concepts in Science Teaching and Learning is written expressly for science education professionals and students of science education to provide the foundation for a shared vocabulary of the field of science teaching and learning Science education is a part of education studies but has developed a unique vocabulary that is occasionally at odds with the ways some terms are commonly used both in the field of education and in general conversation Therefore understanding the specific way that terms are used within science education is vital for those who wish to understand the existing literature or make contributions to it The Language of Science Education provides definitions for 100 unique terms but when considering the related terms that are also defined as they relate to the targeted words almost 150 words are represented in the book For instance laboratory instruction is accompanied by definitions for openness wet lab dry lab virtual lab and cookbook lab Each key term is defined both with a short entry designed to provide immediate access following by a more extensive discussion with extensive references and examples where appropriate Experienced readers will recognize the majority of terms included but the developing discipline of science education demands the consideration of new words For example the term blended science is offered as a better descriptor for interdisciplinary science and make a distinction between project based and problem based instruction Even a definition for science education is included The Language of Science Education is designed as a reference book but many readers may find it useful and enlightening to read it as if it were a series of very short stories      *Professional Development of Chemistry*

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**Fostering Expert Inquiry Skills and Beliefs about Chemistry Through the MORE Laboratory Experience** Lydia Tsing Tien, 1998 *Chemical Building Blocks* Michael J. Padilla, David V. Frank, John G. Little, Steve Miller, 2000 **Books in Print Supplement**, 2002 **Children's Books in Print, 2007**, 2006 **National 5 Chemistry** Barry McBride, Fran Macdonald, John Anderson, 2015-10-30 A full course textbook for the new National 5 Chemistry syllabus endorsed by SQA This book is designed to act as a valuable resource for pupils studying National 5 Chemistry It provides a core text which adheres closely to the SQA syllabus with each section of the book matching a unit of the syllabus and each chapter corresponding to a content area It is an ideal and comprehensive teaching and learning resource for National 5 Chemistry In addition to the core text the book contains a variety of special features For Interest Key Terms Activities Worked Examples Questions Prescribed Practical Activities Summary and Checklist for Revision The only textbook for the National 5 Chemistry syllabus offered by SQA as examined 2014 onwards Bestselling author team with extremely high reputation for Scottish Chemistry titles Full colour presentation and motivating text design to encourage student enthusiasm

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