

Density Practice Problems Worksheet #2

Answer Key

1. You have a rock with a volume of 15cm^3 and a mass of 45 g. What is its density?

$$\text{Density} = m/v$$

$$\text{Density} = 45\text{g}/15\text{cm}^3$$

$$\text{Density} = 3.0\text{g}/\text{cm}^3$$

2. You have a different rock with a volume of 30cm^3 and a mass of 60g. What is its density?

$$\text{Density} = m/v$$

$$\text{Density} = 60\text{g}/30\text{cm}^3$$

$$\text{Density} = 2.0\text{g}/\text{cm}^3$$

3. In the above two examples which rock is more dense? Why?

Rock sample #1, because it has a density of $3.0\text{g}/\text{cm}^3$, which is greater than rock sample #2's density of $2.0\text{g}/\text{cm}^3$

4. Calculate the mass of a liquid with a density of 3.2 g/mL and a volume of 25 mL.

$$\text{Mass} = D \times V$$

$$\text{Mass} = 3.2\text{g/mL} \times 25\text{ mL}$$

$$\text{Mass} = 80.0\text{ g}$$

5. Calculate the density of a 500g rectangular block with the following dimensions: length=8 cm, width=6 cm, height=5 cm.

$$\text{Density} = m/v$$

$$\text{Density} = 500\text{g}/240\text{cm}^3 (8\text{cm} \times 6\text{cm} \times 5\text{cm})$$

$$\text{Density} = 2.083, \text{ rounded to nearest tenth} = 2.1\text{ g}/\text{cm}^3$$

6. Calculate the mass of a solid metal block with a density of $2.6\text{ g}/\text{cm}^3$, a width of 1.8 cm, a length of 4 cm, and a height of 2.3 cm.

$$\text{Mass} = D \times V$$

$$\text{Mass} = 2.6\text{g}/\text{cm}^3 \times (1.8\text{cm} \times 4\text{cm} \times 2.3\text{ cm})$$

$$\text{Mass} = 2.6\text{g}/\text{cm}^3 \times 16.56\text{cm}^3$$

$$\text{Mass} = 43.056\text{g} - \text{rounded to nearest tenth} = 43.1\text{ g}$$

Answer Key To Problem Solving In Chemistry

Morris Hein, Susan Arena, Cary Willard

Answer Key To Problem Solving In Chemistry:

Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner

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Chemistry John Olmsted, Gregory M. Williams, 1997 Textbook outlining concepts of molecular science **Chemistry: The Central Science** Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Dalius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation **Ebook: Chemistry** Julia Burdge, 2014-10-16 Chemistry Third Edition by Julia Burdge offers a clear writing style written with the students in mind Julia uses her background of teaching hundreds of

general chemistry students per year and creates content to offer more detailed explanation on areas where she knows they have problems With outstanding art a consistent problem solving approach interesting applications woven throughout the chapters and a wide range of end of chapter problems this is a great third edition text **Problem-solving in General Chemistry** Christopher John Willis,1977 **Resources in Education** ,1995-10 **Artificial Intelligence in Education: Emerging Technologies, Models and Applications** Eric C. K. Cheng,Rekha B. Koul,Tianchong Wang,Xinguo Yu,2022-03-17 This edited book is a collection of selected research papers presented at the 2021 2nd International Conference on Artificial Intelligence in Education Technology AIET 2021 held in Wuhan China on July 2 4 2021 AIET establishes a platform for AI in education researchers to present research exchange innovative ideas propose new models as well as demonstrate advanced methodologies and novel systems Rapid developments in artificial intelligence AI and the disruptive potential of AI in educational use has drawn significant attention from the education community in recent years For educators entering this uncharted territory many theoretical and practical questions concerning AI in education are raised and issues on AI s technical pedagogical administrative and socio cultural implications are being debated The book provides a comprehensive picture of the current status emerging trends innovations theory applications challenges and opportunities of current AI in education research This timely publication is well aligned with UNESCO s Beijing Consensus on Artificial Intelligence AI and Education It is committed to exploring how best to prepare our students and harness emerging technologies for achieving the Education 2030 Agenda as we move towards an era in which AI is transforming many aspects of our lives Providing a broad coverage of recent technology driven advances and addressing a number of learning centric themes the book is an informative and useful resource for researchers practitioners education leaders and policy makers who are involved or interested in AI and education **Master The Nursing School and Allied Health Entrance Exams** Marion F. Gooding,2008-01-17 Prepares the reader for the entrance exams required by nursing and allied health programs offering reviews of subjects tested and practice exams **Foundations of College Chemistry** Morris Hein,Susan Arena,Cary Willard,2016-08-02 This text is an unbound three hole punched version Used by over 750 000 students Foundations of College Chemistry Binder Ready Version 15th Edition is praised for its accuracy clear no nonsense approach and direct writing style Foundations direct and straightforward explanations focus on problem solving making it the most dependable text on the market Its comprehensive scope proven track record outstanding in text examples and problem sets were all designed to provide instructors with a solid text while not overwhelming students in a difficult course Foundations fits into the prep intro chemistry courses which often include a wide mix of students from science majors not yet ready for general chemistry allied health students in their 1st semester of a GOB sequence science education students for elementary school teachers to the occasional liberal arts student fulfilling a science requirement Foundations was specifically designed to meet this wide array of needs

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