

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

Marion F. Gooding



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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Table of Contents Answer Key To Problem Solving In Chemistry

1. Understanding the eBook Answer Key To Problem Solving In Chemistry
 - The Rise of Digital Reading Answer Key To Problem Solving In Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Problem Solving In Chemistry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key To Problem Solving In Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Problem Solving In Chemistry
 - Personalized Recommendations
 - Answer Key To Problem Solving In Chemistry User Reviews and Ratings
 - Answer Key To Problem Solving In Chemistry and Bestseller Lists
5. Accessing Answer Key To Problem Solving In Chemistry Free and Paid eBooks

- Answer Key To Problem Solving In Chemistry Public Domain eBooks
 - Answer Key To Problem Solving In Chemistry eBook Subscription Services
 - Answer Key To Problem Solving In Chemistry Budget-Friendly Options
6. Navigating Answer Key To Problem Solving In Chemistry eBook Formats
- ePub, PDF, MOBI, and More
 - Answer Key To Problem Solving In Chemistry Compatibility with Devices
 - Answer Key To Problem Solving In Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Answer Key To Problem Solving In Chemistry
 - Highlighting and Note-Taking Answer Key To Problem Solving In Chemistry
 - Interactive Elements Answer Key To Problem Solving In Chemistry
8. Staying Engaged with Answer Key To Problem Solving In Chemistry
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key To Problem Solving In Chemistry
9. Balancing eBooks and Physical Books Answer Key To Problem Solving In Chemistry
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key To Problem Solving In Chemistry
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key To Problem Solving In Chemistry
- Setting Reading Goals Answer Key To Problem Solving In Chemistry
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key To Problem Solving In Chemistry
- Fact-Checking eBook Content of Answer Key To Problem Solving In Chemistry
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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