

## Density Practice Problems Worksheet #2

### Answer Key

1. You have a rock with a volume of  $15\text{cm}^3$  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  $30\text{cm}^3$  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  $3.2\text{ g/mL}$  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.

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

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

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

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

# World Of Chemistry 2 Answers

**Julia Schneider**



## **World Of Chemistry 2 Answers:**

## **World Of Chemistry 2 Answers** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **World Of Chemistry 2 Answers**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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### **Table of Contents World Of Chemistry 2 Answers**

1. Understanding the eBook World Of Chemistry 2 Answers
  - The Rise of Digital Reading World Of Chemistry 2 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying World Of Chemistry 2 Answers
  - 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 World Of Chemistry 2 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from World Of Chemistry 2 Answers
  - Personalized Recommendations
  - World Of Chemistry 2 Answers User Reviews and Ratings
  - World Of Chemistry 2 Answers and Bestseller Lists

5. Accessing World Of Chemistry 2 Answers Free and Paid eBooks
  - World Of Chemistry 2 Answers Public Domain eBooks
  - World Of Chemistry 2 Answers eBook Subscription Services
  - World Of Chemistry 2 Answers Budget-Friendly Options
6. Navigating World Of Chemistry 2 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - World Of Chemistry 2 Answers Compatibility with Devices
  - World Of Chemistry 2 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of World Of Chemistry 2 Answers
  - Highlighting and Note-Taking World Of Chemistry 2 Answers
  - Interactive Elements World Of Chemistry 2 Answers
8. Staying Engaged with World Of Chemistry 2 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers World Of Chemistry 2 Answers
9. Balancing eBooks and Physical Books World Of Chemistry 2 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection World Of Chemistry 2 Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine World Of Chemistry 2 Answers
  - Setting Reading Goals World Of Chemistry 2 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of World Of Chemistry 2 Answers
  - Fact-Checking eBook Content of World Of Chemistry 2 Answers
  - 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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