

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.

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

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

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

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

Density Word Problems With Answers

Hector Zenil



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Table of Contents Density Word Problems With Answers

1. Understanding the eBook Density Word Problems With Answers
 - The Rise of Digital Reading Density Word Problems With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Density Word Problems With 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 Density Word Problems With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Density Word Problems With Answers
 - Personalized Recommendations
 - Density Word Problems With Answers User Reviews and Ratings

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