

SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME: Key

- 1) A student measures the mass of an 8 cm^3 block of brown sugar to be 12.9 g . What is the density of the brown sugar?

$$m = 12.9 \text{ g}$$

$$V = 8 \text{ cm}^3$$

$$D = ?$$

$$D = \frac{m}{V}$$

$$D = \frac{12.9 \text{ g}}{8 \text{ cm}^3}$$

$$D = 1.6125 \text{ g/cm}^3$$

- 2) A chef fills a 50 mL container with 43.5 g of cooking oil. What is the density of the oil?

$$V = 50 \text{ mL}$$

$$m = 43.5 \text{ g}$$

$$D = \frac{m}{V}$$

$$D = \frac{43.5 \text{ g}}{50 \text{ mL}}$$

$$D = .87 \text{ g/mL}$$

- 3) Calculate the mass of a liquid with a density of 2.5 g/mL and a volume of 15 mL .

$$D = 2.5 \text{ g/mL}$$

$$V = 15 \text{ mL}$$

$$2.5 \text{ g/mL} = \frac{m}{15 \text{ mL}}$$

$$m = (2.5)(15)$$

$$m = 37.5 \text{ g}$$

- 4) Calculate the volume of a liquid with a density of 5.45 g/mL and a mass of 65 g .

$$D = 5.45 \text{ g/mL}$$

$$m = 65 \text{ g}$$

$$5.45 = \frac{65}{V}$$

$$V = \frac{65}{5.45}$$

$$V = 11.93 \text{ mL}$$

- 5) A machine shop worker records the mass of an aluminum cube as 176 g . If one side of the cube measures 4 cm , what is the density of the aluminum?

$$m = 176 \text{ g}$$

$$V = L \times W \times H$$

$$D = \frac{176 \text{ g}}{64 \text{ cm}^3}$$

$$D = 2.75 \text{ g/cm}^3$$

- 6) A scientist performing a demonstration finds that a piece of cork displaces 23.8 mL of water. The piece of cork has a mass of 5.8 g . What is the density of the cork?

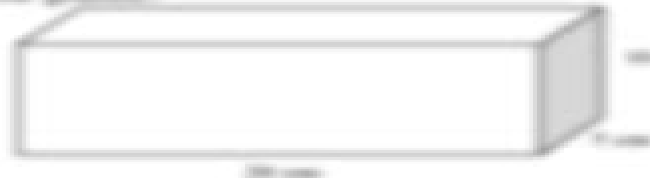
$$m = 5.8 \text{ g}$$

$$V = 23.8 \text{ mL}$$

$$D = \frac{5.8}{23.8}$$

$$D = .24 \text{ g/mL}$$

- 7) A carpenter begins work on the following block of granite that weighs 2700 g . What is the density of the granite?



$$m = 2700 \text{ g}$$

$$V = L \times W \times H$$

$$= 20 \times 10 \times 8$$

$$= 1600 \text{ cm}^3$$

$$D = \frac{2700}{1600}$$

$$D = 2.7 \text{ g/cm}^3$$

- 8) A piece of PVC plumbing pipe displaces 48 mL when placed into a container of water. If the pipe has a mass of 78 g , what is the density of PVC?

$$V = 48 \text{ mL}$$

$$m = 78 \text{ g}$$

$$D = \frac{78}{48}$$

$$D = 1.63 \text{ g/mL}$$

- 9) A solid magnesium flake has a mass of 1700 g and a volume of 743 cm^3 . What is the density of the magnesium?

$$m = 1700 \text{ g}$$

$$V = 743 \text{ cm}^3$$

$$D = \frac{1700}{743}$$

$$D = 2.29 \text{ g/cm}^3$$

Unit 3 Measurements And Calculations Answer Key

Karen Morrison, Lucille Dunne



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Table of Contents Unit 3 Measurements And Calculations Answer Key

1. Understanding the eBook Unit 3 Measurements And Calculations Answer Key
 - The Rise of Digital Reading Unit 3 Measurements And Calculations Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Unit 3 Measurements And Calculations Answer Key
 - 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 Unit 3 Measurements And Calculations Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unit 3 Measurements And Calculations Answer Key
 - Personalized Recommendations
 - Unit 3 Measurements And Calculations Answer Key User Reviews and Ratings

- Unit 3 Measurements And Calculations Answer Key and Bestseller Lists
- 5. Accessing Unit 3 Measurements And Calculations Answer Key Free and Paid eBooks
 - Unit 3 Measurements And Calculations Answer Key Public Domain eBooks
 - Unit 3 Measurements And Calculations Answer Key eBook Subscription Services
 - Unit 3 Measurements And Calculations Answer Key Budget-Friendly Options
- 6. Navigating Unit 3 Measurements And Calculations Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Unit 3 Measurements And Calculations Answer Key Compatibility with Devices
 - Unit 3 Measurements And Calculations Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unit 3 Measurements And Calculations Answer Key
 - Highlighting and Note-Taking Unit 3 Measurements And Calculations Answer Key
 - Interactive Elements Unit 3 Measurements And Calculations Answer Key
- 8. Staying Engaged with Unit 3 Measurements And Calculations Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unit 3 Measurements And Calculations Answer Key
- 9. Balancing eBooks and Physical Books Unit 3 Measurements And Calculations Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unit 3 Measurements And Calculations Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unit 3 Measurements And Calculations Answer Key
 - Setting Reading Goals Unit 3 Measurements And Calculations Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unit 3 Measurements And Calculations Answer Key
 - Fact-Checking eBook Content of Unit 3 Measurements And Calculations Answer Key
 - 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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