

SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME: Answer 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?

$$\frac{12.9 \text{ g}}{8 \text{ cm}^3} = \underline{1.61 \text{ g/cm}^3}$$

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

$$\frac{43.5 \text{ g}}{50 \text{ mL}} = \underline{.87 \text{ g/mL}}$$

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

$$2.5 \text{ g/mL} \times 15 \text{ mL} = \underline{37.5 \text{ g}}$$

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

$$\frac{65 \text{ g}}{5.45 \text{ g/mL}} = \underline{11.93 \text{ mL}}$$

- 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?

$$V = 4 \text{ cm} \times 4 \text{ cm} \times 4 \text{ cm}$$

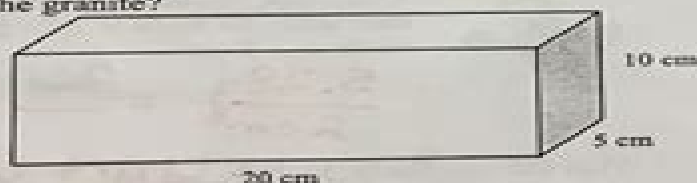
$$V = 64 \text{ cm}^3$$

$$\frac{176 \text{ g}}{64 \text{ cm}^3} = \underline{2.75 \text{ g/cm}^3}$$

- 6) A teacher performing a demonstration finds that a piece of cork displaces 23.5 mL of water. The piece of cork has a mass of 5.7 g . What is the density of the cork?

$$\frac{5.7 \text{ g}}{23.5 \text{ mL}} = \underline{.24 \text{ g/mL}}$$

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



$$V = 10 \text{ cm} \times 5 \text{ cm} \times 20 \text{ cm} = \underline{? \text{ cm}^3} \times 1000$$

$$\frac{2700 \text{ g}}{? \text{ cm}^3} = \underline{2.7 \text{ g/cm}^3}$$

- 8) A piece of PVC plumbing pipe displaces 60 mL when placed into a container of water. If the pipe has a mass of 78 g , what is the density of PVC?

$$\frac{78 \text{ g}}{60 \text{ mL}} = \underline{1.3 \text{ g/mL}}$$

- 9) A solid magnesium flare has a mass of 1300 g and a volume of 743 cm^3 . What is the density of the magnesium?

$$\frac{1300 \text{ g}}{743 \text{ cm}^3} = \underline{1.75 \text{ g/cm}^3}$$

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S Ashworth



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Table of Contents Answers For Science Homework

1. Understanding the eBook Answers For Science Homework
 - The Rise of Digital Reading Answers For Science Homework
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Science Homework
 - 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 Answers For Science Homework
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Science Homework
 - Personalized Recommendations
 - Answers For Science Homework User Reviews and Ratings
 - Answers For Science Homework and Bestseller Lists
5. Accessing Answers For Science Homework Free and Paid eBooks
 - Answers For Science Homework Public Domain eBooks
 - Answers For Science Homework eBook Subscription Services
 - Answers For Science Homework Budget-Friendly Options
6. Navigating Answers For Science Homework eBook Formats

- ePub, PDF, MOBI, and More
- Answers For Science Homework Compatibility with Devices
- Answers For Science Homework Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Science Homework
 - Highlighting and Note-Taking Answers For Science Homework
 - Interactive Elements Answers For Science Homework
- 8. Staying Engaged with Answers For Science Homework
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Science Homework
- 9. Balancing eBooks and Physical Books Answers For Science Homework
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Science Homework
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Science Homework
 - Setting Reading Goals Answers For Science Homework
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Science Homework
 - Fact-Checking eBook Content of Answers For Science Homework
 - 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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