

# Density, Mass and Volume (A)

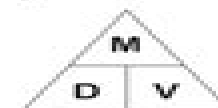


## Section A

### Calculating Density

Use the mass and volume of each element to calculate its density in  $\text{g}/\text{cm}^3$ .

Element	Mass	Volume	Density ( $\text{g}/\text{cm}^3$ )
Silicon	15 g	$6.44 \text{ cm}^3$	
Zinc	2.5 kg	$350.63 \text{ cm}^3$	
Lithium	340 g	$636.7 \text{ cm}^3$	
Mercury	3251 g	$240 \text{ cm}^3$	
Titanium	0.8 kg	$176.21 \text{ cm}^3$	
Oxygen	8.574 g	$6000 \text{ cm}^3$	



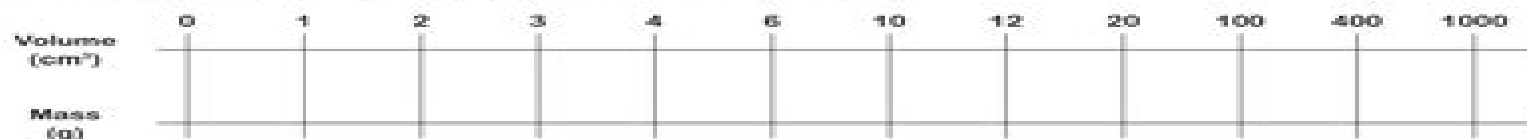
Given that  $1000 \text{ cm}^3 = 1 \text{ L}$ ,  
Convert this density to  $\text{g}/\text{L}$ .

## Section B

### Calculating Mass and Volume

1) The density of iron is  $7.9 \text{ g}/\text{cm}^3$  to 1 d.p.

a) Use the density to complete stacked number line:



b) What kind of relationship exists between mass and volume?

2) Complete the table, giving your answer in the specified units.

Element	Mass	Volume	Density ( $\text{g}/\text{cm}^3$ )
Silver	kg	$400 \text{ cm}^3$	$10.5 \text{ g}/\text{cm}^3$
Tin	5000 g	$\text{cm}^3$	$7.31 \text{ g}/\text{cm}^3$
Nitrogen	g	$750 \text{ cm}^3$	$1.25 \text{ g}/\text{L}$
Carbon	g	1.2 L	$2.26 \text{ g}/\text{cm}^3$
Copper	723 g	$\text{cm}^3$	$8.96 \text{ g}/\text{cm}^3$
Calcium	1.4 kg	$\text{cm}^3$	$1.55 \text{ g}/\text{cm}^3$
Aluminum	kg	$0.02 \text{ m}^3$	$2.702 \text{ g}/\text{cm}^3$
Gold	1 tonne	$\text{m}^3$	$19.31 \text{ g}/\text{cm}^3$

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**Christian Drosten**



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## **Table of Contents Maths Herald Volume 5 Answers Pdf**

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

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