

Physics

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(Chapter 2) (Units and Measurement) (Exercises)

(Class 11)

Question 2.1:

Fill in the blanks

- (a) The volume of a cube of side 1 cm is equal tom³
(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to ... (mm)²
(c) A vehicle moving with a speed of 18 km h⁻¹ covers...m in 1 s
(d) The relative density of lead is 11.3. Its density isg cm⁻³ or ...kg m⁻³.

Answer 2.1:

(a) $1 \text{ cm} = \frac{1}{100} \text{ m}$

Volume of the cube = 1 cm³

$$\text{But, } 1 \text{ cm}^3 = 1 \text{ cm} \times 1 \text{ cm} \times 1 \text{ cm} = \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m}$$

$$\therefore 1 \text{ cm}^3 = 10^{-6} \text{ m}^3$$

Hence, the volume of a cube of side 1 cm is equal to 10⁻⁶ m³.

- (b) The total surface area of a cylinder of radius r and height h is $S = 2\pi r(r + h)$. Given that, $r = 2 \text{ cm} = 2 \times 1 \text{ cm} = 2 \times 10 \text{ mm} = 20 \text{ mm}$
 $h = 10 \text{ cm} = 10 \times 10 \text{ mm} = 100 \text{ mm} = 15072 = 1.5 \times 10^4 \text{ mm}^2$
 $\therefore S = 2 \times 3.14 \times 20 \times (20 + 100)$

(c) Using the conversion,

$$1 \text{ km/h} = \frac{5}{18} \text{ m/s}$$

$$18 \text{ km/h} = 18 \times \frac{5}{18} = 5 \text{ m/s}$$

Therefore, distance can be obtained using the relation: Distance = Speed \times Time = 5 \times 1 = 5 m

Hence, the vehicle covers 5 m in 1 s.

(d) Relative density of a substance is given by the relation,

$$\text{Relative density} = \frac{\text{Density of substance}}{\text{Density of water}}$$

$$\text{Density of water} = 1 \text{ g/cm}^3$$

$$\text{Density of lead} = \text{Relative density of lead} \times \text{Density of water} = 11.3 \times 1 = 11.3 \text{ g/cm}^3$$

$$\text{Again, } 1 \text{ g} = \frac{1}{1000} \text{ kg}$$

$$1 \text{ cm}^3 = 10^{-6} \text{ m}^3$$

$$1 \text{ g/cm}^3 = \frac{10^{-3}}{10^{-6}} \text{ kg/m}^3 = 10^3 \text{ kg/m}^3$$

$$\therefore 11.3 \text{ g/cm}^3 = 11.3 \times 10^3 \text{ kg/m}^3$$

Question 2.2:

Fill in the blanks by suitable conversion of units

- (a) $1 \text{ kg m}^2 \text{ s}^{-2} = \dots \text{ g cm}^2 \text{ s}^{-2}$
(b) $1 \text{ m} = \dots \text{ ly}$
(c) $3.0 \text{ m s}^{-2} = \dots \text{ km h}^{-2}$
(d) $G = 6.67 \times 10^{-11} \text{ N m}^2 (\text{kg})^{-2} = \dots (\text{cm})^3 \text{ s}^{-2} \text{ g}^{-1}$.

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Table of Contents Answers To Study Guide Ch 12 Physics

1. Understanding the eBook Answers To Study Guide Ch 12 Physics
 - The Rise of Digital Reading Answers To Study Guide Ch 12 Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Study Guide Ch 12 Physics
 - 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 To Study Guide Ch 12 Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers To Study Guide Ch 12 Physics
 - Personalized Recommendations
 - Answers To Study Guide Ch 12 Physics User Reviews and Ratings
 - Answers To Study Guide Ch 12 Physics and Bestseller Lists

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