

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 orkg m⁻³.

Answer 2.1:

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

Volume of the cube = 1 cm³

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} m^3 .

(b) The total surface area of a cylinder of radius r and height h is

$$S = 2\pi r(r + h). \text{ Given that, } r = 2 \text{ cm} = 2 \times 1 \text{ cm} = 2 \times 10 \text{ mm} = 20 \text{ mm}$$

$$h = 10 \text{ cm} = 10 \times 10 \text{ mm} = 100 \text{ mm} = 15072 = 1.5 \times 10^4 \text{ mm}^2$$

$$\therefore S = 2 \times 3.14 \times 20 \times (20 + 100)$$

(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 = $5 \times 1 = 5 \text{ m}$

Hence, the vehicle covers 5 m in 1 s.

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

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

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

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

$$\text{Again, } 1 \text{ g} = \frac{1}{100} \text{ kg}$$

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

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

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

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 11th Std Physics Notes

1. Understanding the eBook 11th Std Physics Notes
 - The Rise of Digital Reading 11th Std Physics Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying 11th Std Physics Notes
 - 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 11th Std Physics Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from 11th Std Physics Notes
 - Personalized Recommendations
 - 11th Std Physics Notes User Reviews and Ratings
 - 11th Std Physics Notes and Bestseller Lists
5. Accessing 11th Std Physics Notes Free and Paid eBooks
 - 11th Std Physics Notes Public Domain eBooks

- 11th Std Physics Notes eBook Subscription Services
- 11th Std Physics Notes Budget-Friendly Options

6. Navigating 11th Std Physics Notes eBook Formats

- ePub, PDF, MOBI, and More
- 11th Std Physics Notes Compatibility with Devices
- 11th Std Physics Notes Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 11th Std Physics Notes
- Highlighting and Note-Taking 11th Std Physics Notes
- Interactive Elements 11th Std Physics Notes

8. Staying Engaged with 11th Std Physics Notes

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 11th Std Physics Notes

9. Balancing eBooks and Physical Books 11th Std Physics Notes

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 11th Std Physics Notes

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 11th Std Physics Notes

- Setting Reading Goals 11th Std Physics Notes
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 11th Std Physics Notes

- Fact-Checking eBook Content of 11th Std Physics Notes
- 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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