

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

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

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

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

(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 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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MEDICIS-Promed: Advances in Radioactive Ion Beams for Nuclear Medicine Thierry Stora, Clemens Decristoforo, John O. Prior, 2022-11-11

Lessons in Physics Lothrop Davis

Higgins, 1903 Hearings, Reports and Prints of the House Committee on Interstate and Foreign Commerce United States.
Congress. House. Committee on Interstate and Foreign Commerce, 1976

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Table of Contents 11th Physics All Lesson Target

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

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