

# 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 to ....m<sup>3</sup>  
(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to ... (mm)<sup>2</sup>  
(c) A vehicle moving with a speed of 18 km h<sup>-1</sup> covers....m in 1 s  
(d) The relative density of lead is 11.3. Its density is ....g cm<sup>-3</sup> or ....kg m<sup>-3</sup>.

## Answer 2.1:

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

Volume of the cube = 1 cm<sup>3</sup>

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  $10^{-6} \text{ m}^3$ .

(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)  $G = 6.67 \times 10^{-11} \text{ N m}^2 \text{ (kg)}^{-2} = \dots (\text{cm})^3 \text{ s}^{-2} \text{ g}^{-1}$ .

# Answers To Study Guide Ch 12 Physics

**Harvard Project Physics**

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**Fundamentals of Physics, Part 2 (Chapters 12-20)** David Halliday, Robert Resnick, Jearl Walker, 2004-01-06

**Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers** John R.

Gordon, Raymond A. Serway, 2004 Written by John R. Gordon, Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text. This manual also features a list of important equations, concepts and answers to selected end of chapter questions

**Student Study Guide & Selected Solutions Manual** David D. Reid, 2007 **Student Study Guide for General Physics with Bioscience Essays** Jerry B.

Marion, 1978 **Student Study Guide and Solutions Manual for General Physics** Morton M. Sternheim, 1986

*An Introduction to Physics* Harvard Project Physics, 1968 **Confessions of a Regressionist** Barbara H. Pomar, 2012-05

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**Study Guide to Accompany Fuller/Fuller/Fuller Physics** Thomas C. Campbell, Robert G. Fuller, 1978 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content

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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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