

PHYSICS GRADE 10

CHAPTER ONE LINEAR MOTION

Introduction:

Study of motion is divided into two:

1. Kinematics
2. Dynamics

In kinematics forces causing motion are disregarded while dynamics deals with motion of objects and the forces causing them.

A. Displacement

Distance covered by a body in a specified direction is called displacement. It is denoted by letter 's' and has both magnitude and direction. Distance is the movement from one point to another. The SI unit for displacement is the metre (m).

B. Speed

This is the distance covered per unit time.

Speed = distance covered/ time taken. Distance is a scalar quantity since it has magnitude only. The SI unit for speed is metres per second (m/s or ms⁻¹).

Average speed = total distance covered/total time taken

Other units for speed used are km/h.

Examples

1. A body covers a distance of 20m in 4 seconds, it rests for 10 seconds and finally covers a distance of 50m in 10 seconds. Calculate the average speed.

Solution

Total distance covered = 20 + 50 = 70m

Total time taken = 4 + 10 + 10 = 24 seconds

Therefore average speed = 70/24 = 2.9m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 100 km/h in 20 seconds.

Solution

Distance covered = speed × time

$$= 100 \times \frac{20}{3600} \text{ (convert km/h to m/s)}$$

$$= 50 \times 20$$

$$= 1000 \text{ m}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2000 km?

Solution

Speed: 100 km/h = $100 \times \frac{1000}{3600} \text{ m/s} = 27.78 \text{ m/s}$

Time = distance/speed

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

iii. Velocity

This is the change of displacement per unit time. It is a vector quantity.

Velocity = change in displacement/total time taken

The SI unit for velocity is m/s

Examples

Scope Of Physics Paper1

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Table of Contents Scope Of Physics Paper1

1. Understanding the eBook Scope Of Physics Paper1
 - The Rise of Digital Reading Scope Of Physics Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying Scope Of Physics Paper1
 - 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 Scope Of Physics Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scope Of Physics Paper1
 - Personalized Recommendations
 - Scope Of Physics Paper1 User Reviews and Ratings
 - Scope Of Physics Paper1 and Bestseller Lists
5. Accessing Scope Of Physics Paper1 Free and Paid eBooks
 - Scope Of Physics Paper1 Public Domain eBooks

- Scope Of Physics Paper1 eBook Subscription Services
- Scope Of Physics Paper1 Budget-Friendly Options
- 6. Navigating Scope Of Physics Paper1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Scope Of Physics Paper1 Compatibility with Devices
 - Scope Of Physics Paper1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scope Of Physics Paper1
 - Highlighting and Note-Taking Scope Of Physics Paper1
 - Interactive Elements Scope Of Physics Paper1
- 8. Staying Engaged with Scope Of Physics Paper1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scope Of Physics Paper1
- 9. Balancing eBooks and Physical Books Scope Of Physics Paper1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scope Of Physics Paper1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Scope Of Physics Paper1
 - Setting Reading Goals Scope Of Physics Paper1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Scope Of Physics Paper1
 - Fact-Checking eBook Content of Scope Of Physics Paper1
 - 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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