

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 30m in 10 seconds. Calculate the average speed.

Solution

Total distance covered = 20 + 30 = 50m

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

Therefore average speed = 50/24 = 2.1m/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

$$= 100 \times \frac{20}{3600} = 0.555 \text{ km}$$

$$= 555 \text{ m}$$

$$= 0.555 \text{ km}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2.000 km?

Solution

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

Time = distance/speed

$$= \frac{2000}{27.78} = 72 \text{ s}$$

$$= 72 \text{ s}$$

C. 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

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A Gutmann



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Table of Contents Grade 10 Physics Scope Paper 1 Term 4

1. Understanding the eBook Grade 10 Physics Scope Paper 1 Term 4
 - The Rise of Digital Reading Grade 10 Physics Scope Paper 1 Term 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Physics Scope Paper 1 Term 4
 - 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 Grade 10 Physics Scope Paper 1 Term 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Physics Scope Paper 1 Term 4
 - Personalized Recommendations
 - Grade 10 Physics Scope Paper 1 Term 4 User Reviews and Ratings
 - Grade 10 Physics Scope Paper 1 Term 4 and Bestseller Lists

5. Accessing Grade 10 Physics Scope Paper 1 Term 4 Free and Paid eBooks
 - Grade 10 Physics Scope Paper 1 Term 4 Public Domain eBooks
 - Grade 10 Physics Scope Paper 1 Term 4 eBook Subscription Services
 - Grade 10 Physics Scope Paper 1 Term 4 Budget-Friendly Options
6. Navigating Grade 10 Physics Scope Paper 1 Term 4 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 10 Physics Scope Paper 1 Term 4 Compatibility with Devices
 - Grade 10 Physics Scope Paper 1 Term 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 10 Physics Scope Paper 1 Term 4
 - Highlighting and Note-Taking Grade 10 Physics Scope Paper 1 Term 4
 - Interactive Elements Grade 10 Physics Scope Paper 1 Term 4
8. Staying Engaged with Grade 10 Physics Scope Paper 1 Term 4
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 10 Physics Scope Paper 1 Term 4
9. Balancing eBooks and Physical Books Grade 10 Physics Scope Paper 1 Term 4
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 10 Physics Scope Paper 1 Term 4
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 10 Physics Scope Paper 1 Term 4
 - Setting Reading Goals Grade 10 Physics Scope Paper 1 Term 4
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 10 Physics Scope Paper 1 Term 4
 - Fact-Checking eBook Content of Grade 10 Physics Scope Paper 1 Term 4
 - 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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