

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 = 2.9 m/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 2.000 km?

Solution

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

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)

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Table of Contents Scope For Paper 1 Physics Grade10 Final Exam

1. Understanding the eBook Scope For Paper 1 Physics Grade10 Final Exam
 - The Rise of Digital Reading Scope For Paper 1 Physics Grade10 Final Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Scope For Paper 1 Physics Grade10 Final Exam
 - 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 For Paper 1 Physics Grade10 Final Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scope For Paper 1 Physics Grade10 Final Exam
 - Personalized Recommendations
 - Scope For Paper 1 Physics Grade10 Final Exam User Reviews and Ratings
 - Scope For Paper 1 Physics Grade10 Final Exam and Bestseller Lists
5. Accessing Scope For Paper 1 Physics Grade10 Final Exam Free and Paid eBooks
 - Scope For Paper 1 Physics Grade10 Final Exam Public Domain eBooks
 - Scope For Paper 1 Physics Grade10 Final Exam eBook Subscription Services
 - Scope For Paper 1 Physics Grade10 Final Exam Budget-Friendly Options

6. Navigating Scope For Paper 1 Physics Grade10 Final Exam eBook Formats
 - ePub, PDF, MOBI, and More
 - Scope For Paper 1 Physics Grade10 Final Exam Compatibility with Devices
 - Scope For Paper 1 Physics Grade10 Final Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scope For Paper 1 Physics Grade10 Final Exam
 - Highlighting and Note-Taking Scope For Paper 1 Physics Grade10 Final Exam
 - Interactive Elements Scope For Paper 1 Physics Grade10 Final Exam
8. Staying Engaged with Scope For Paper 1 Physics Grade10 Final Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scope For Paper 1 Physics Grade10 Final Exam
9. Balancing eBooks and Physical Books Scope For Paper 1 Physics Grade10 Final Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scope For Paper 1 Physics Grade10 Final Exam
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Scope For Paper 1 Physics Grade10 Final Exam
 - Setting Reading Goals Scope For Paper 1 Physics Grade10 Final Exam
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Scope For Paper 1 Physics Grade10 Final Exam
 - Fact-Checking eBook Content of Scope For Paper 1 Physics Grade10 Final Exam
 - 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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