

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.

I. Displacement

Distance moved 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).

II. 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 10m in 4 seconds. It rests for 10 seconds and finally covers a distance of 50m in 60 seconds. Calculate the average speed.

Solution

Total distance covered=10+50=100m

Total time taken=4+10+6=20 seconds

Therefore average speed=100/20=5m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 180 km/h in 30 seconds.

Solution

Distance covered=speed*time

$$=180 \times 1000 / 60 \times 60 = 50 \text{ m/s}$$

$$=50 \times 30$$

$$=1,500 \text{ m}$$

3. Calculate the time in seconds taken a by body moving with a uniform speed of 360km/h to cover a distance of 3,000 km?

Solution

Speed: 360 km/h= $360 \times 1000 / 60 \times 60 = 100 \text{ m/s}$

Time=distance/speed

$$3000 \times 1000 / 100$$

$$=30,000 \text{ seconds.}$$

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 units for velocity are m/s

Examples

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Table of Contents Scope For Grade 10 Physics Final Exam Paper 2

1. Understanding the eBook Scope For Grade 10 Physics Final Exam Paper 2
 - The Rise of Digital Reading Scope For Grade 10 Physics Final Exam Paper 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Scope For Grade 10 Physics Final Exam Paper 2
 - 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 Grade 10 Physics Final Exam Paper 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scope For Grade 10 Physics Final Exam Paper 2
 - Personalized Recommendations

- Scope For Grade 10 Physics Final Exam Paper 2 User Reviews and Ratings
- Scope For Grade 10 Physics Final Exam Paper 2 and Bestseller Lists
- 5. Accessing Scope For Grade 10 Physics Final Exam Paper 2 Free and Paid eBooks
 - Scope For Grade 10 Physics Final Exam Paper 2 Public Domain eBooks
 - Scope For Grade 10 Physics Final Exam Paper 2 eBook Subscription Services
 - Scope For Grade 10 Physics Final Exam Paper 2 Budget-Friendly Options
- 6. Navigating Scope For Grade 10 Physics Final Exam Paper 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Scope For Grade 10 Physics Final Exam Paper 2 Compatibility with Devices
 - Scope For Grade 10 Physics Final Exam Paper 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scope For Grade 10 Physics Final Exam Paper 2
 - Highlighting and Note-Taking Scope For Grade 10 Physics Final Exam Paper 2
 - Interactive Elements Scope For Grade 10 Physics Final Exam Paper 2
- 8. Staying Engaged with Scope For Grade 10 Physics Final Exam Paper 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scope For Grade 10 Physics Final Exam Paper 2
- 9. Balancing eBooks and Physical Books Scope For Grade 10 Physics Final Exam Paper 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scope For Grade 10 Physics Final Exam Paper 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Scope For Grade 10 Physics Final Exam Paper 2
 - Setting Reading Goals Scope For Grade 10 Physics Final Exam Paper 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Scope For Grade 10 Physics Final Exam Paper 2
 - Fact-Checking eBook Content of Scope For Grade 10 Physics Final Exam Paper 2

- 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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