

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*1000/60*60=50m/s

=50*30

=1,500m

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*1000/60*60=100m/s

Time=distance/speed

3000*1000/100

=30,000 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 Grade 10 Physics Exam Papers And Memos

1. Understanding the eBook Grade 10 Physics Exam Papers And Memos
 - The Rise of Digital Reading Grade 10 Physics Exam Papers And Memos
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Physics Exam Papers And Memos
 - 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 Exam Papers And Memos
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Physics Exam Papers And Memos
 - Personalized Recommendations
 - Grade 10 Physics Exam Papers And Memos User Reviews and Ratings
 - Grade 10 Physics Exam Papers And Memos and Bestseller Lists
5. Accessing Grade 10 Physics Exam Papers And Memos Free and Paid eBooks
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 - Grade 10 Physics Exam Papers And Memos eBook Subscription Services

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