

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

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

$$= 50 * 30$$

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

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 * 1000 / 60 * 60 = 100m/s

Time = distance / speed

$$3000 * 1000 / 100$$

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

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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M Lipman



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Table of Contents November 2012 Physics Pexempler Memo For Grade10

1. Understanding the eBook November 2012 Physics Pexempler Memo For Grade10
 - The Rise of Digital Reading November 2012 Physics Pexempler Memo For Grade10
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2012 Physics Pexempler Memo For Grade10
 - 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 November 2012 Physics Pexempler Memo For Grade10
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2012 Physics Pexempler Memo For Grade10
 - Personalized Recommendations
 - November 2012 Physics Pexempler Memo For Grade10 User Reviews and Ratings

- November 2012 Physics Pexemplar Memo For Grade10 and Bestseller Lists
- 5. Accessing November 2012 Physics Pexemplar Memo For Grade10 Free and Paid eBooks
 - November 2012 Physics Pexemplar Memo For Grade10 Public Domain eBooks
 - November 2012 Physics Pexemplar Memo For Grade10 eBook Subscription Services
 - November 2012 Physics Pexemplar Memo For Grade10 Budget-Friendly Options
- 6. Navigating November 2012 Physics Pexemplar Memo For Grade10 eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2012 Physics Pexemplar Memo For Grade10 Compatibility with Devices
 - November 2012 Physics Pexemplar Memo For Grade10 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2012 Physics Pexemplar Memo For Grade10
 - Highlighting and Note-Taking November 2012 Physics Pexemplar Memo For Grade10
 - Interactive Elements November 2012 Physics Pexemplar Memo For Grade10
- 8. Staying Engaged with November 2012 Physics Pexemplar Memo For Grade10
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2012 Physics Pexemplar Memo For Grade10
- 9. Balancing eBooks and Physical Books November 2012 Physics Pexemplar Memo For Grade10
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2012 Physics Pexemplar Memo For Grade10
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine November 2012 Physics Pexemplar Memo For Grade10
 - Setting Reading Goals November 2012 Physics Pexemplar Memo For Grade10
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of November 2012 Physics Pexemplar Memo For Grade10
 - Fact-Checking eBook Content of November 2012 Physics Pexemplar Memo For Grade10
 - 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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