

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 14 Grade10 Physical Science Question Paper

1. Understanding the eBook 14 Grade10 Physical Science Question Paper
 - The Rise of Digital Reading 14 Grade10 Physical Science Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Grade10 Physical Science Question Paper
 - 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 14 Grade10 Physical Science Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Grade10 Physical Science Question Paper
 - Personalized Recommendations
 - 14 Grade10 Physical Science Question Paper User Reviews and Ratings
 - 14 Grade10 Physical Science Question Paper and Bestseller Lists
5. Accessing 14 Grade10 Physical Science Question Paper Free and Paid eBooks

- 14 Grade10 Physical Science Question Paper Public Domain eBooks
- 14 Grade10 Physical Science Question Paper eBook Subscription Services
- 14 Grade10 Physical Science Question Paper Budget-Friendly Options
- 6. Navigating 14 Grade10 Physical Science Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - 14 Grade10 Physical Science Question Paper Compatibility with Devices
 - 14 Grade10 Physical Science Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Grade10 Physical Science Question Paper
 - Highlighting and Note-Taking 14 Grade10 Physical Science Question Paper
 - Interactive Elements 14 Grade10 Physical Science Question Paper
- 8. Staying Engaged with 14 Grade10 Physical Science Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Grade10 Physical Science Question Paper
- 9. Balancing eBooks and Physical Books 14 Grade10 Physical Science Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Grade10 Physical Science Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Grade10 Physical Science Question Paper
 - Setting Reading Goals 14 Grade10 Physical Science Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Grade10 Physical Science Question Paper
 - Fact-Checking eBook Content of 14 Grade10 Physical Science Question Paper
 - 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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