

# 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.

### 1. 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<sup>-1</sup>)

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 90m in 60 seconds. Calculate the average speed.

#### Solution

$$\text{Total distance covered} = 10 + 90 = 100 \text{ m}$$

$$\text{Total time taken} = 4 + 10 + 60 = 70 \text{ seconds}$$

$$\text{Therefore average speed} = 100 / 70 = 5 \text{ m/s}$$

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

#### Solution

$$\text{Distance covered} = \text{speed} \times \text{time}$$

$$= 180 \times 1000 / 60 \times 60 = 5 \text{ m/s}$$

$$= 50 \times 30$$

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

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

#### Solution

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

$$\text{Time} = \text{distance} / \text{speed}$$

$$3000 \times 1000 / 100$$

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

### 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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## Question 14

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## **Table of Contents Answers For Physics Paper1 November 2011 Grade 12 Question 14**

1. Understanding the eBook Answers For Physics Paper1 November 2011 Grade 12 Question 14
  - The Rise of Digital Reading Answers For Physics Paper1 November 2011 Grade 12 Question 14
  - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Physics Paper1 November 2011 Grade 12 Question 14
  - 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 Answers For Physics Paper1 November 2011 Grade 12 Question 14
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Physics Paper1 November 2011 Grade 12 Question 14
  - Personalized Recommendations
  - Answers For Physics Paper1 November 2011 Grade 12 Question 14 User Reviews and Ratings
  - Answers For Physics Paper1 November 2011 Grade 12 Question 14 and Bestseller Lists
5. Accessing Answers For Physics Paper1 November 2011 Grade 12 Question 14 Free and Paid eBooks
  - Answers For Physics Paper1 November 2011 Grade 12 Question 14 Public Domain eBooks
  - Answers For Physics Paper1 November 2011 Grade 12 Question 14 eBook Subscription Services
  - Answers For Physics Paper1 November 2011 Grade 12 Question 14 Budget-Friendly Options
6. Navigating Answers For Physics Paper1 November 2011 Grade 12 Question 14 eBook Formats

- ePub, PDF, MOBI, and More
- Answers For Physics Paper1 November 2011 Grade 12 Question 14 Compatibility with Devices
- Answers For Physics Paper1 November 2011 Grade 12 Question 14 Enhanced eBook Features

## 7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Answers For Physics Paper1 November 2011 Grade 12 Question 14
- Highlighting and Note-Taking Answers For Physics Paper1 November 2011 Grade 12 Question 14
- Interactive Elements Answers For Physics Paper1 November 2011 Grade 12 Question 14

## 8. Staying Engaged with Answers For Physics Paper1 November 2011 Grade 12 Question 14

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Answers For Physics Paper1 November 2011 Grade 12 Question 14

## 9. Balancing eBooks and Physical Books Answers For Physics Paper1 November 2011 Grade 12 Question 14

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Answers For Physics Paper1 November 2011 Grade 12 Question 14

## 10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

## 11. Cultivating a Reading Routine Answers For Physics Paper1 November 2011 Grade 12 Question 14

- Setting Reading Goals Answers For Physics Paper1 November 2011 Grade 12 Question 14
- Carving Out Dedicated Reading Time

## 12. Sourcing Reliable Information of Answers For Physics Paper1 November 2011 Grade 12 Question 14

- Fact-Checking eBook Content of Answers For Physics Paper1 November 2011 Grade 12 Question 14
- 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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