

# 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).

### 2. 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

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

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

$$3000 \times 1000 / 100$$

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

### 3. 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 2014 Exampler Question Of Physics Grade 10**

1. Understanding the eBook 2014 Exampler Question Of Physics Grade 10
  - The Rise of Digital Reading 2014 Exampler Question Of Physics Grade 10
  - Advantages of eBooks Over Traditional Books
2. Identifying 2014 Exampler Question Of Physics Grade 10
  - 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 2014 Exampler Question Of Physics Grade 10
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 Exampler Question Of Physics Grade 10
  - Personalized Recommendations
  - 2014 Exampler Question Of Physics Grade 10 User Reviews and Ratings
  - 2014 Exampler Question Of Physics Grade 10 and Bestseller Lists
5. Accessing 2014 Exampler Question Of Physics Grade 10 Free and Paid eBooks
  - 2014 Exampler Question Of Physics Grade 10 Public Domain eBooks
  - 2014 Exampler Question Of Physics Grade 10 eBook Subscription Services
  - 2014 Exampler Question Of Physics Grade 10 Budget-Friendly Options
6. Navigating 2014 Exampler Question Of Physics Grade 10 eBook Formats

- ePub, PDF, MOBI, and More
- 2014 Exampler Question Of Physics Grade 10 Compatibility with Devices
- 2014 Exampler Question Of Physics Grade 10 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 2014 Exampler Question Of Physics Grade 10
- Highlighting and Note-Taking 2014 Exampler Question Of Physics Grade 10
- Interactive Elements 2014 Exampler Question Of Physics Grade 10

8. Staying Engaged with 2014 Exampler Question Of Physics Grade 10

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 2014 Exampler Question Of Physics Grade 10

9. Balancing eBooks and Physical Books 2014 Exampler Question Of Physics Grade 10

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 2014 Exampler Question Of Physics Grade 10

10. Overcoming Reading Challenges

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

11. Cultivating a Reading Routine 2014 Exampler Question Of Physics Grade 10

- Setting Reading Goals 2014 Exampler Question Of Physics Grade 10
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 2014 Exampler Question Of Physics Grade 10

- Fact-Checking eBook Content of 2014 Exampler Question Of Physics Grade 10
- 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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