

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.

A. Displacement

Distance covered 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).

B. 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 20m in 4 seconds, it rests for 10 seconds and finally covers a distance of 50m in 10 seconds. Calculate the average speed.

Solution

Total distance covered = 20 + 50 = 70m

Total time taken = 4 + 10 + 10 = 24 seconds

Therefore average speed = 70/24 = 2.9m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 100 km/h in 20 seconds.

Solution

Distance covered = speed × time

$$= 100 \times \frac{1000}{3600} \times 20 \text{ (convert km/h to m/s)}$$

$$= 55 \times 20$$

$$= 1100 \text{ m}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2.000 km?

Solution

Speed: 100 km/h = $100 \times \frac{1000}{3600} = 27.78 \text{ m/s}$

Time = distance/speed

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

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 unit for velocity is m/s

(Examples)

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Table of Contents Exempler Physical Science Grade 1and Memorandum November

1. Understanding the eBook Exempler Physical Science Grade 1and Memorandum November
 - The Rise of Digital Reading Exempler Physical Science Grade 1and Memorandum November
 - Advantages of eBooks Over Traditional Books
2. Identifying Exempler Physical Science Grade 1and Memorandum November
 - 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 Exempler Physical Science Grade 1and Memorandum November
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exempler Physical Science Grade 1and Memorandum November
 - Personalized Recommendations
 - Exempler Physical Science Grade 1and Memorandum November User Reviews and Ratings
 - Exempler Physical Science Grade 1and Memorandum November and Bestseller Lists
5. Accessing Exempler Physical Science Grade 1and Memorandum November Free and Paid eBooks
 - Exempler Physical Science Grade 1and Memorandum November Public Domain eBooks
 - Exempler Physical Science Grade 1and Memorandum November eBook Subscription Services

- Exemplar Physical Science Grade 1and Memorandum November Budget-Friendly Options
- 6. Navigating Exemplar Physical Science Grade 1and Memorandum November eBook Formats
 - ePub, PDF, MOBI, and More
 - Exemplar Physical Science Grade 1and Memorandum November Compatibility with Devices
 - Exemplar Physical Science Grade 1and Memorandum November Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exemplar Physical Science Grade 1and Memorandum November
 - Highlighting and Note-Taking Exemplar Physical Science Grade 1and Memorandum November
 - Interactive Elements Exemplar Physical Science Grade 1and Memorandum November
- 8. Staying Engaged with Exemplar Physical Science Grade 1and Memorandum November
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exemplar Physical Science Grade 1and Memorandum November
- 9. Balancing eBooks and Physical Books Exemplar Physical Science Grade 1and Memorandum November
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exemplar Physical Science Grade 1and Memorandum November
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Exemplar Physical Science Grade 1and Memorandum November
 - Setting Reading Goals Exemplar Physical Science Grade 1and Memorandum November
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Exemplar Physical Science Grade 1and Memorandum November
 - Fact-Checking eBook Content of Exemplar Physical Science Grade 1and Memorandum November
 - 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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