

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

$$= 100 \times \frac{20}{3600} = 0.555 \text{ km}$$

$$= 555 \text{ m}$$

$$= 0.555 \text{ km}$$

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

$$= \frac{2000}{27.78} = 72 \text{ s}$$

$$= 72 \text{ s}$$

C. 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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N Colangelo



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Table of Contents Physical Science Grd 10 F Nal Exam Scope

1. Understanding the eBook Physical Science Grd 10 F Nal Exam Scope
 - The Rise of Digital Reading Physical Science Grd 10 F Nal Exam Scope
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grd 10 F Nal Exam Scope
 - 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 Physical Science Grd 10 F Nal Exam Scope
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grd 10 F Nal Exam Scope
 - Personalized Recommendations
 - Physical Science Grd 10 F Nal Exam Scope User Reviews and Ratings
 - Physical Science Grd 10 F Nal Exam Scope and Bestseller Lists

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