

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 = $10 + 50 = 100\text{m}$

Total time taken = $4 + 10 + 6 = 20$ seconds

Therefore average speed = $100 / 20 = 5\text{m/s}$

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

Solution

Distance covered = speed * time
 $= 180 * 1000 / 60 * 60 = 50\text{m/s}$
 $= 50 * 30$
 $= 1,500\text{m}$

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

Time = distance / speed
 $3000 * 1000 / 100$
 $= 30,000 \text{ seconds.}$

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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**Commonwealth Scientific and
Industrial Research Organization
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Resources in Education ,1999-04 **Research in Education** ,1974 *Secondary, Higher Secondary and Higher Education - Reference Book* Prin. Dr. Jayshree A. Airekar,2019-12-02 Explore Educational Progression Secondary to Higher Education by Dr Ananya Kapoor for a detailed examination of the seamless transition and challenges across secondary higher secondary and higher education levels The Global Testing Culture William C. Smith,2016-01-04 The past thirty years have seen a rapid expansion of testing exposing students worldwide to tests that are now more than ever standardized and linked to high stakes outcomes The use of testing as a policy tool has been legitimized within international educational development to measure education quality in the vast majority of countries worldwide The embedded nature and normative power of high stakes standardized testing across national contexts can be understood as a global testing culture The global testing culture permeates all aspects of education from financing to parental involvement to teacher and student beliefs and practices The reinforcing nature of the global testing culture leads to an environment where testing becomes synonymous with accountability which becomes synonymous with education quality Underlying the global testing culture is a set of values identified from the increasing literature on world culture These include education as a human right academic intelligence faith in science decentralization and neoliberalism Each of these values highlights different aspects of the dialogue in support of high stakes standardized testing The wide approval of these values and their ability to legitimate various aspects of high stakes testing reinforces the taken for granted notion that such tests are effective and appropriate education practices However a large body of literature emphasizes the negative unintended consequences teaching to the test reshaping the testing pool the inequitable distribution of school resources and teachers attention and reconstructing the role of the student teacher and parent commonly found when standardized census based tests are combined with high stakes outcomes for educators or students This book problematizes this culture by providing critical perspectives that challenge the assumptions of the culture and describe how the culture manifests in national contexts The volume makes it clear that testing per se is not the problem Instead it is how tests are administered used or misused and linked to accountability that provide the global testing culture with its powerful ability to shape schools and society and lead to its unintended undesirable consequences

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