

# 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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web 2 generator synchronizing panel drawings 2023 01 07 interpreting engineering drawings covering the entire course content have been included in ix providing ample opportunities to the learner to practice on such graded exercises and receive feedback chapter x includes drawings of electronic circuits and components

**generator synchronization panels eamfco** - Jun 06 2022

web our generator synchronization panels are assembled and designed by eamfco this can be built by the recommendation of our engineers or customized by customers requirements our panels are capable or producing up to 10000a and build with high quality materials electrical components breakers transformers etc this synchronization

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web automatic synchronizing panel for gensets specialized electrical and industrial panels the panels play an important role giving the power generator installation the needed completeness automatic synchronizing panel for gensets

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web the proposed synchronizing relay is capable of synchronizing a distributed generator dg to the power grid from black start and fulfils the requirements imposed by the utility the synchronizing relay is implemented through voltage and frequency control of an actual lab scale synchronous generator

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web jun 27 2023 generator synchronizing panel boards are control panels that facilitate the synchronization of multiple generators in a power system they monitor and adjust voltage frequency and phase parameters to ensure that all

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web introduction the art of paralleling generator sets has evolved over time a process that once required discrete

synchronizing components panels full of induction disc protective relays and analog meters is now being performed with fewer and more cost effective microprocessor based componentry