

# 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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