

# 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  $\text{ms}^{-1}$ )

**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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