

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

$$= 100 \times \frac{20}{3600} \text{ (convert km/h to m/s)}$$

$$= 50 \times 20$$

$$= 1000 \text{ m}$$

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

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

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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J Rink



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manipulate extremely complex algebraic formulae symbolically on a computer Contrary to numerics these computations are exact and there is no loss of accuracy After decades of research and development these tools are now becoming as indispensable in Science and Engineering as traditional number crunching already is The ZiF 94 workshop is amongst the first devoted specifically to applications of computer algebra CA in Science and Engineering The book documents the state of the art in this area and serves as an important reference for future work

Free Will and Action Explanation Scott Sehon, 2016-04-29 Do we have free will and moral responsibility Is free will compatible with determinism Scott Sehon argues that we can make progress on these questions by focusing on an underlying issue the nature of action explanation When a person acts or does something on purpose we explain the behavior by citing the agent's reasons The dominant view in philosophy of mind has been to construe such explanations as a species of causal explanation Part I of the book proposes and defends a non causal account of action and agency according to which reason explanation of human behavior is irreducibly teleological rather than causal Part II applies the teleological account of action to free will and responsibility arguing that the free actions the ones for which we are directly responsible are the goal directed actions the actions that are teleologically explicable in terms of our reasons It is then argued that this non causal account of action undermines the appeal of incompatibilist arguments arguments attempting to show that free will is not compatible with determinism Beyond this Sehon argues that the non causal compatibilist account works well in practice it is in accord with our clear intuitions about cases and it both explains and provides guidance in the cases where our intuitions are murkier

The Century Dictionary and Cyclopedia: Dictionary William Dwight Whitney, 1904 *The New American Encyclopedic Dictionary* Robert Hunter, Edward Thomas Roe, Le Roy Hooker, Thomas W. Handford, 1906 *The Century Dictionary and Cyclopedia: The Century dictionary ... prepared under the superintendence of William Dwight Whitney* William Dwight Whitney, Benjamin Eli Smith, 1903 **The Imperial Encyclopaedic Dictionary** Robert Hunter, 1901 Conservation of Columbia Basin Fish: Regional coordination and public involvement, 2000 **The Century Dictionary: The Century dictionary**, 1911

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