

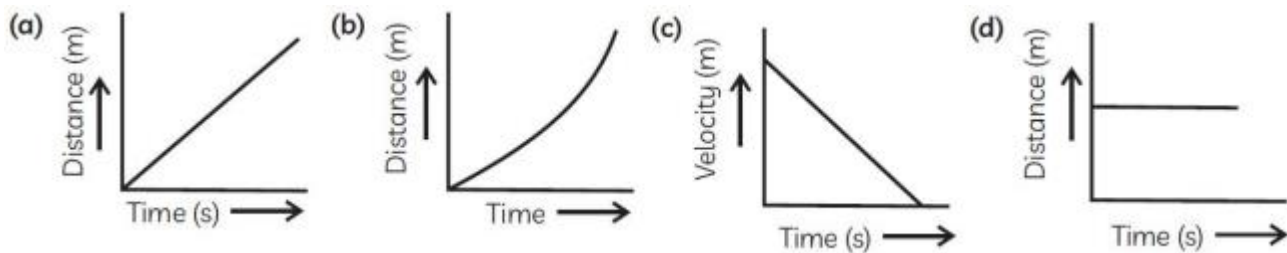
# INTERNATIONAL INDIAN SCHOOL BURAIDAH

## WORKSHEET FOR THE ACADEMIC YEAR 2026-27

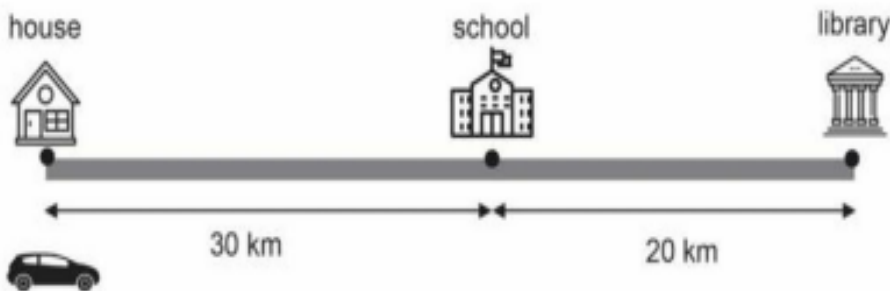
Class-9 Subject: Physics

### CHAPTER 04: Describing Motion Around Us

- 1) A person throws a ball vertically upwards. It rises to a height of 50 m and comes back to the thrower,
- the total distance covered by the ball is zero.
  - the net displacement of the ball is zero.
  - the displacement is 100 m.
  - none of these.
- 2) Which of the following figures represents the uniform motion of a moving object correctly?



- 2) The figure below shows the motion of a car along a straight path. The car moves from house to school and school to library. It then moves back to the school.



- What is the net displacement of the car?
  - 20 km
  - 30 km
  - 50 km
  - 70 km
- What is the distance travelled by the car?
  - 90 km
  - 30 km
  - 50 km
  - 70 km
- A bus accelerates uniformly from 54 km/h to 72 km/h in 10 seconds. Calculate the acceleration in  $\text{ms}^{-2}$ .
- A train moves with a speed of 30 km/h for the first 15 minutes, 40 km/h in the next 15 minutes, and 60 km/h in the last 30 minutes. Calculate the average speed of the train for this journey.
- A train starting from a railway station attains a speed of 40 km/h in 10 minutes with uniform acceleration. Find its acceleration.
- A bus decreases its speed from  $80 \text{ km h}^{-1}$  to  $60 \text{ km h}^{-1}$  in 5 s. Find the acceleration of the bus.
- Differentiate between speed and velocity.
- A scooter traveling at 10 m/s increases its speed up to 20 m/s in 4 sec. Find the acceleration of scooter.
- A train starting from rest moves with a uniform acceleration of  $0.2 \text{ ms}^{-2}$  for 5 minutes. Calculate the final velocity.
- A station a train starts from rest and attains a speed of 54 km/h in 10 sec. What is the acceleration?