



Class 9 Science | Describing Motion Around Us

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. A learner walks 30 m east and then 10 m west. Displacement is:

- A. 40 m east B. 20 m west
C. 40 m west D. 20 m east

2. A runner completes one lap of a circular track. The displacement is:

- A. Track radius B. Twice the radius
C. Zero D. Track circumference

3. A cyclist covers 180 m in 30 s. Average speed is:

- A. 5 m/s B. 6 m/s C. 30 m/s D. 60 m/s

4. A car travels equal distances at 20 and 30 m/s. Its average speed is:

- A. 25 m/s B. 24 m/s C. 50 m/s D. 26 m/s

5. Velocity changes from 4 to 16 m/s in 6 s uniformly. Acceleration is:

- A. 2 m/s² B. 3 m/s² C. 20 m/s² D. 12 m/s²

6. An object starts from rest with acceleration 3 m/s². Speed after 4 s is:

- A. 48 m/s B. 7 m/s C. 24 m/s D. 12 m/s

7. Starting from rest, a trolley accelerates at 2 m/s² for 5 s. Distance is:

- A. 5 m B. 50 m C. 25 m D. 10 m

8. A car slows uniformly from 20 m/s to rest in 4 s. Distance covered is:

- A. 20 m B. 80 m C. 40 m D. 5 m

9. The slope of a position-time graph gives:

- A. Force B. Mass C. Acceleration D. Velocity

10. The area under a velocity-time graph gives:

- A. Power B. Mass
C. Acceleration D. Displacement

11. A horizontal line on a position-time graph represents:

- A. Rest B. Uniform acceleration
C. Increasing speed D. Circular motion

12. A straight rising line on a velocity-time graph represents:

- A. Constant position
B. Zero acceleration
C. Decreasing velocity
D. Constant positive acceleration

13. In uniform circular motion, which quantity changes continuously?

- A. Time period for equal laps
B. Mass
C. Speed
D. Velocity

14. A wheel-edge point travels a circle of radius 7 m in 4 s. Speed ($\pi=22/7$) is:

- A. 11 m/s B. 44 m/s C. 14 m/s D. 7 m/s

15. A speed of 54 km/h equals:

- A. 15 m/s B. 54 m/s C. 194.4 m/s D. 5.4 m/s

ANSWER KEY — check after completing all 15 questions

1.D 2.C 3.B 4.B 5.A 6.D 7.C 8.C 9.D 10.D 11.A 12.D 13.D 14.A 15.A

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper