

CHAPTER-8 | Measurement of Time and Motion

QUIZ
PART-03

1. Speed is:

- A. Distance only
- B. Time only
- C. Distance per unit time
- D. Time per distance (C)

Explanation: Speed = Distance \div Time.

2. Formula for speed is:

- A. $D \times T$
- B. $D \div T$
- C. $T \div D$
- D. $D + T$ (B)

Explanation: Speed = Total distance / Total time.

3. SI unit of speed is:

- A. km/h
- B. m/s
- C. m/min
- D. km/s (B)

Explanation: Standard unit is metre per second.

4. 1 km =

- A. 100 m
- B. 1000 m
- C. 10 m
- D. 10000 m (B)

Explanation: 1 kilometre = 1000 metres.

5. If distance increases in same time, speed:

- A. Decreases
- B. Increases
- C. Same
- D. Zero (B)

Explanation: More distance per time means higher speed.

6. Speed can be expressed in:

- A. m/s only
- B. km/h only
- C. Both m/s and km/h
- D. Seconds (C)

Explanation: Different units are used.

7. Faster object covers:

- A. Less distance
- B. More distance in same time
- C. Same distance
- D. No distance (B)

Explanation: Speed shows how fast it moves.

8. Distance =

- A. Speed \div Time
- B. Speed \times Time
- C. Time \div Speed
- D. Speed - Time (B)

Explanation: $D = S \times T$.

9. Time =

- A. Distance \times Speed
- B. Distance \div Speed
- C. Speed \div Distance
- D. Speed + Distance (B)

Explanation: $T = D \div S$.

10. The fastest train is the one with:

- A. Least time
- B. Maximum speed
- C. Maximum distance
- D. Lowest speed (B)

Explanation: Highest speed means fastest.