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1. A bus leaves at 7:00 am and reaches at 10:00 am. The travel time is:
   a) 2 hrs b) 3 hrs c) 4 hrs d) 5 hrs

2. A train covers 300 km in 5 hours. Its speed is:
   a) 40 km/h b) 50 km/h c) 60 km/h d) 70 km/h

3. Which unit is best to measure the distance between two cities?
   a) cm b) km c) mm d) inch

4. A car travels 240 km in 4 hours. The distance in 1 hour is:
   a) 40 km b) 50 km c) 60 km d) 70 km

5. Which formula is correct?
   a) Speed = Distance × Time
   b) Speed = Distance ÷ Time
   c) Speed = Time ÷ Distance
   d) Distance = Speed ÷ Time

6. A child walks 2 km in 30 minutes. Distance in 2 hours?
   a) 4 km b) 6 km c) 8 km d) 10 km

7. A train starts at 6:00 am and reaches at 8:30 am. Travel time =
   a) 1 hr 30 min b) 2 hr c) 2 hr 30 min d) 3 hr

8. If speed = 60 km/h and time = 2 h, distance =
   a) 60 km b) 100 km c) 120 km d) 140 km

9. A bus covers 90 km in 3 hours. Average speed =
   a) 20 km/h b) 25 km/h c) 30 km/h d) 35 km/h

10. A bicycle covers 15 km in 1 hour. In 4 hours =
    a) 45 km b) 50 km c) 55 km d) 60 km

11. If a car covers 100 km in 2 hours, its speed =
    a) 40 km/h b) 45 km/h c) 50 km/h d) 60 km/h

12. Which of the following is NOT a unit of speed?
    a) km/h b) m/s c) cm/s d) hour

13. A train covered 480 km in 8 hours. Speed =
    a) 50 km/h b) 55 km/h c) 60 km/h d) 65 km/h

14. A car left at 9:15 am and reached 11:45 am. Travel time =
    a) 2 hr 15 min b) 2 hr 30 min c) 2 hr 45 min d) 3 hr

15. Which one is the slowest?
    a) Bicycle (12 km/h)
    b) Car (60 km/h)
    c) Train (90 km/h)
    d) Aeroplane (600 km/h)

16. A student walks 5 km in 1 hour. In 3 hours he will walk:
    a) 10 km b) 12 km c) 15 km d) 20 km

17. A train leaves at 8:30 am and reaches at 1:00 pm. Time taken =
a) 3 hr b) 4 hr 30 min c) 5 hr d) 5 hr 30 min

18. If a flight covers 1200 km in 2 hours, its speed =
a) 500 km/h b) 550 km/h c) 600 km/h d) 650 km/h

19. The formula for time =
a) Distance ÷ Speed
b) Speed ÷ Distance
c) Distance × Speed
d) Speed × Time

20. A car covers 360 km in 6 hours. Speed =
a) 50 km/h b) 55 km/h c) 60 km/h d) 65 km/h

Assertion–Reason Questions

(Options: A – Both A & R true, R explains A; B – Both true, R not explanation; C – A true, R false; D – A false, R true)

21. A: Speed is the distance covered in unit time.
R: Speed = Distance ÷ Time.

22. A: A longer distance in less time means higher speed.
R: Speed depends only on distance.

23. A: If a car covers 200 km in 4 hours, speed = 50 km/h.
R: Speed = Time ÷ Distance.

24. A: Trains are faster than buses.
R: Because trains run at higher average speeds.

25. A: Distance covered increases with speed if time is fixed.
R: Distance = Speed × Time.

Case Study Questions

Case Study 1 – School Bus
The school bus leaves at 7:30 am, travels 30 km, and reaches by 8:30 am.

a) What was the travel time?

b) What was the average speed?

c) If the bus started at 7:45 am with the same speed, at what time would it reach?

d) Write one advantage of using a school bus.

Case Study 2 – Family Trip
A family travelled from Delhi to Jaipur (270 km) by car. They left at 8:00 am and reached at 1:00 pm.

a) What was the total time taken?

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b) What was their average speed?

c) If they had stopped for 30 minutes, what was the actual driving time?

d) How much distance would they cover in 6 hours at the same speed

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