

Speed, Distance & Time₃: Hard Practice Paper

Q1. A driver covers 120 km at 40 km/h and then a further 120 km at 60 km/h. What is the average speed for the whole journey?

- A. 45 km/h B. 48 km/h C. 50 km/h D. 52 km/h E. 55 km/h

Q2. A speed of 45 km/h is the same as which speed in metres per second?

- A. 8 m/s B. 10 m/s C. 12.5 m/s D. 15 m/s E. 25 m/s

Q3. Two cars are 420 km apart and drive towards each other at 65 km/h and 75 km/h. How long is it before they meet?

- A. 2 hours 30 minutes
B. 3 hours
C. 3 hours 30 minutes
D. 4 hours
E. 6 hours

Q4. A train leaves at 08:55 and arrives at 12:40, having travelled 300 km. What is its average speed?

- A. 60 km/h B. 70 km/h C. 75 km/h D. 80 km/h E. 85 km/h

Q5. A cyclist averages 18 km/h. How long does it take to ride 45 km?

- A. 2 hours
B. 2 hours 15 minutes
C. 2 hours 30 minutes
D. 2 hours 45 minutes
E. 3 hours

Q6. A car travels at a steady 72 km/h. How far does it travel in 25 seconds?

- A. 300 m B. 400 m C. 450 m D. 500 m E. 600 m

Q7. A driver leaves at 06:20 to travel 240 km at a steady 80 km/h. At what time does the driver arrive?

- A. 08:20 B. 08:50 C. 09:20 D. 09:50 E. 10:20

Q8. A competitor runs 10 km at 12 km/h and then walks 4 km at 4 km/h. How long does the whole event take?

- A. 1 hour 30 minutes
B. 1 hour 40 minutes
C. 1 hour 50 minutes
D. 2 hours
E. 2 hours 10 minutes

Q9. A boy cycles to school along a 6 km route at 10 km/h and returns along the same route at 15 km/h. What is his average speed for the whole trip?

- A. 11 km/h B. 12 km/h C. 12.5 km/h D. 13 km/h E. 25 km/h

Q10. A lorry leaves at 21:50 and the journey takes 6 hours 25 minutes. At what time does it arrive?

- A. 03:15 B. 03:45 C. 04:15 D. 04:25 E. 04:45

Q11. How long does it take to travel 8 km at a steady 96 km/h?

- A. 4 minutes
- B. 5 minutes
- C. 6 minutes
- D. 8 minutes
- E. 12 minutes

Q12. A bus travels 15 km in 18 minutes. What is its average speed in kilometres per hour?

- A. 40 km/h
- B. 45 km/h
- C. 50 km/h
- D. 55 km/h
- E. 60 km/h

Q13. A driver plans to cover 300 km in 4 hours, but after 2 hours has travelled only 130 km. What average speed is needed for the rest of the journey to arrive on time?

- A. 75 km/h
- B. 80 km/h
- C. 85 km/h
- D. 90 km/h
- E. 95 km/h

Q14. A train travels at 60 km/h for the first 2 hours of a journey and at 90 km/h for the last hour. What is its average speed for the whole journey?

- A. 65 km/h
- B. 70 km/h
- C. 75 km/h
- D. 80 km/h
- E. 150 km/h

Q15. A snail moves at a steady 2 cm per second. How far does it travel in 5 minutes?

- A. 2 m
- B. 4 m
- C. 6 m
- D. 10 m
- E. 60 m