Speed, Distance & Time: Hard Practice Paper 1

Q1. A driver travels 60 km at 60 km/h and then a further 60 km at 30 km/h. What is the average speed for the whole journey?

A. 35 km/h B. 40 km/h C. 45 km/h D. 50 km/h E. 90 km/h

Q2. A train leaves at 09:15 and arrives at 11:45, travelling at a steady 80 km/h. How far does it travel?

A. 160 km B. 180 km C. 200 km D. 220 km E. 240 km

Q3. Two cars start 300 km apart and drive towards each other, one at 60 km/h and the other at 40 km/h. How long is it before they meet?

A. 2 hours

B. 2 hours 30 minutes

C. 3 hours

D. 3 hours 30 minutes

E. 5 hours

Q4. A speed of 108 km/h is the same as which speed in metres per second?

A. 18 m/s B. 25 m/s C. 30 m/s D. 36 m/s E. 60 m/s

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Q5. A car travels 90 km at 45 km/h, stops for 30 minutes, then travels 60 km at 60 km/h. How long does the whole journey take?

A. 3 hours

B. 3 hours 15 minutes

C. 3 hours 30 minutes

D. 4 hours

E. 4 hours 30 minutes

Q6. A journey takes 2 hours 30 minutes at a steady 64 km/h. How much time would be saved by travelling at a steady 80 km/h instead?

A. 15 minutes

B. 30 minutes

C. 45 minutes

D. 1 hour

E. 1 hour 15 minutes

Q7. A runner covers 400 m in 80 seconds. What is this speed in kilometres per hour?

A. 5 km/h B. 12 km/h C. 15 km/h D. 18 km/h E. 20 km/h

Q8. A cyclist leaves a village at 08:00 travelling at 12 km/h. At 09:00 a car leaves the same village along the same road at 36 km/h. At what time does the car catch up with the cyclist?

A. 09:20 B. 09:30 C. 09:45 D. 10:00 E. 10:30

Q9. A driver travels 30 km to a town at an average of 60 km/h and returns along the same route at an average of 20 km/h. What is the average speed for the whole trip?

A. 25 km/h B. 30 km/h C. 35 km/h D. 40 km/h E. 80 km/h

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Q10. A train travels for 3 hours at 90 km/h and then for 2 hours at 40 km/h. What is its average speed for the whole journey?

A. 55 km/h B. 60 km/h C. 65 km/h D. 70 km/h E. 75 km/h

Q11. A coach leaves at 23:40 and the journey takes 4 hours 55 minutes. At what time does it arrive?

A. 03:35 B. 04:05 C. 04:25 D. 04:35 E. 05:05

Q12. A car is travelling at a steady 90 km/h. How far does it travel in one minute?

A. 900 m B. 1200 m C. 1500 m D. 1800 m E. 9000 m

Q13. A walker sets off at 07:30 to cover 18 km at a steady 5 km/h, and rests for 45 minutes on the way. At what time does the walker arrive?

A. 11:06 B. 11:21 C. 11:36 D. 11:51 E. 12:06

Q14. Two trains are 250 km apart and travel towards each other at 70 km/h and 80 km/h. How long is it before they pass each other?

A. 1 hour 20 minutes

B. 1 hour 40 minutes

C. 1 hour 45 minutes

D. 2 hours

E. 2 hours 30 minutes

Q15. A car travels at a steady 50 km/h for 4 hours 12 minutes. How far does it go?

A. 190 km B. 200 km C. 205 km D. 210 km E. 220 km

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