Speed, Distance & Time: Hard Practice Paper 5

Q1. A competitor walks 3 km at 6 km/h and then runs 3 km at 12 km/h. What is the average speed for the whole 6 km?

A. 7 km/h B. 8 km/h C. 9 km/h D. 10 km/h E. 18 km/h

Q2. A speed of 90 km/h is the same as which speed in metres per second?

A. 15 m/s B. 20 m/s C. 25 m/s D. 30 m/s E. 54 m/s

Q3. A train travels 150 km at 75 km/h, waits at a station for 25 minutes, then travels 90 km at 60 km/h. How long is the whole journey?

A. 3 hours 25 minutes

B. 3 hours 45 minutes

C. 3 hours 55 minutes

D. 4 hours 5 minutes

E. 4 hours 25 minutes

Q4. A car covers the first 120 km of a 360 km journey at 60 km/h and the remaining 240 km at 80 km/h. What is its average speed for the whole journey?

A. 66 km/h B. 70 km/h C. 72 km/h D. 75 km/h E. 80 km/h

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Q5. Two cars leave the same place at the same time and drive in opposite directions at 55 km/h and 65 km/h. After how long are they 300 km apart?

A. 2 hours

B. 2 hours 15 minutes

C. 2 hours 30 minutes

D. 3 hours

E. 5 hours

Q6. A train leaves at 16:42 and arrives at 20:15. How long is the journey?

A. 3 hours 13 minutes

B. 3 hours 27 minutes

C. 3 hours 33 minutes

D. 4 hours 27 minutes

E. 4 hours 33 minutes

Q7. A runner completes 2400 m in 8 minutes. What is the average speed?

A. 3 m/s B. 4 m/s C. 5 m/s D. 6 m/s E. 300 m/s

Q8. A journey of 315 km takes 4 hours 30 minutes. What is the average speed?

A. 60 km/h B. 65 km/h C. 70 km/h D. 75 km/h E. 80 km/h

Q9. A bus leaves at 07:20, travels 96 km at 64 km/h, stops for 15 minutes, then travels 40 km at 80 km/h. At what time does it arrive?

A. 09:05 B. 09:20 C. 09:35 D. 09:50 E. 10:05

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Q10. How long does it take to travel 8 km at a steady 20 km/h?

A. 16 minutes

B. 20 minutes

C. 24 minutes

D. 30 minutes

E. 40 minutes

Q11. A car is travelling at a steady 108 km/h. How far does it travel in 15 seconds?

A. 300 m B. 360 m C. 450 m D. 540 m E. 600 m

Q12. Sam walks 3 km to a shop at 4 km/h and walks back along the same route at 6 km/h. How long is he away from home altogether?

A. 1 hour

B. 1 hour 5 minutes

C. 1 hour 15 minutes

D. 1 hour 30 minutes

E. 1 hour 45 minutes

Q13. A lorry leaves at 08:00 travelling at 45 km/h. A car leaves the same place at 09:30 along the same road at 75 km/h. At what time does the car catch up with the lorry?

A. 11:00 B. 11:15 C. 11:30 D. 11:45 E. 12:15

Q14. A train covers three quarters of a 200 km journey in 2 hours. What average speed does it need for the last part to complete the journey in a further 30 minutes?

A. 75 km/h B. 80 km/h C. 90 km/h D. 100 km/h E. 120 km/h

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Q15. A journey takes 2 hours 24 minutes at a steady 75 km/h. How long is the journey?

A. 150 km B. 165 km C. 175 km D. 180 km E. 195 km

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