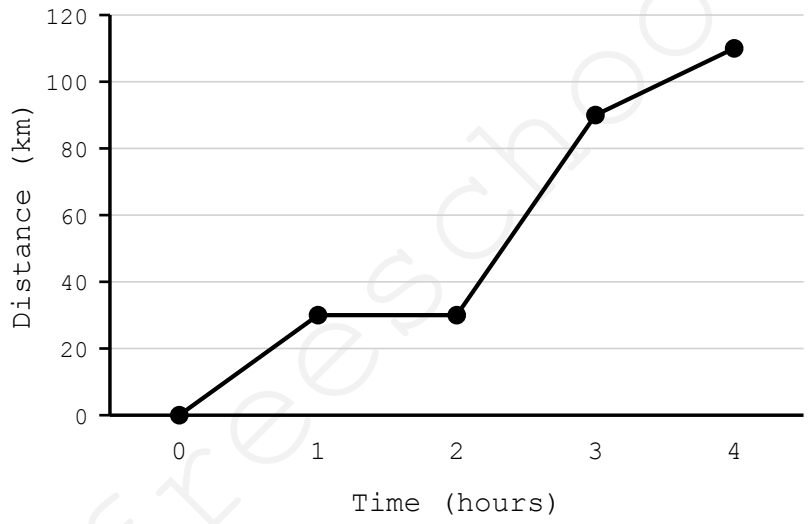
Speed, Distance & Time: Hard Practice Paper 6

Q1. A train 150 m long crosses a bridge 250 m long. It takes 20 seconds from the front reaching the bridge to the back leaving it. What is the train's speed?

A. 12.5 m/s *B.* 20 m/s *C.* 7.5 m/s *D.* 30 m/s *E.* 8 m/s

Q2. The graph shows a journey. What was the speed during the fastest hour?



A. 30 km/h *B.* 60 km/h *C.* 110 km/h *D.* 20 km/h *E.* 90 km/h

Q3. A car travelling at 80 km/h passes a lorry travelling at 50 km/h. How far ahead of the lorry is the car 40 minutes later?

A. 20 km *B.* 30 km *C.* 12 km *D.* 53 km *E.* 15 km

Q4. A man walks to the station at 5 km/h and cycles home along the same road at 20 km/h. He is away for exactly 1 hour. How far away is the station?

A. 4 km *B.* 5 km *C.* 2.5 km *D.* 10 km *E.* 12.5 km

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Q5. The table shows four trains. Which has the greatest average speed?

Train	Leaves	Arrives	Distance
P	09:00	11:00	150 km
Q	09:15	12:15	255 km
R	10:00	11:30	105 km
S	10:20	13:20	270 km

A. Train Q

B. Train P

C. Train S

D. Train R

E. They are all the same

Q6. A journey of 240 km took 3 hours 30 minutes. The first 90 km was driven at 60 km/h. What was the average speed for the rest?

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

Q7. Two towns are 240 km apart. A car leaves the first at 09:00 travelling at 60 km/h. At 10:00 another car leaves the second town towards it at 90 km/h. At what time do they meet?

A. 10:48 *B.* 10:36 *C.* 11:00 *D.* 11:36 *E.* 11:12

Q8. A car travels at a steady 25 metres per second. How far does it travel in 20 minutes?

A. 3 km *B.* 500 m *C.* 50 km *D.* 30 km *E.* 1.5 km

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Q9. A runner wants to finish 10 km in 50 minutes. After 6 km he has taken 32 minutes. What pace, in minutes for each kilometre, does he need for the rest?

A. 5 minutes

B. 4 minutes 30 seconds

C. 4 minutes

D. 5 minutes 30 seconds

E. 6 minutes

Q10. Two trains, one 200 m long and one 160 m long, pass each other travelling in opposite directions at 20 m/s and 25 m/s. How long do they take to pass completely?

A. 18 seconds

B. 16 seconds

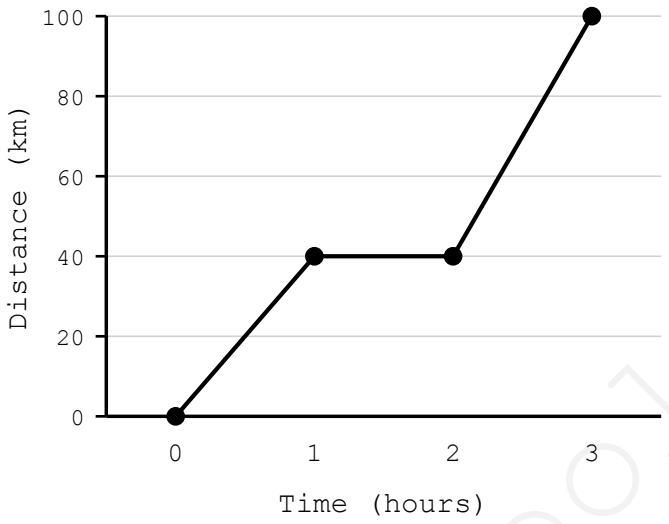
C. 72 seconds

D. 4 seconds

E. 8 seconds

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Q11. The graph shows a car's journey. Which statement is true?



A. It was stationary in the first hour

B. It was fastest in the first hour

C. It travelled at a steady speed throughout

D. It was stationary in the second hour and fastest in the third

E. It travelled 100 km in the third hour

Q12. A boat travels 24 km downstream at 12 km/h and then returns upstream along the same route at 8 km/h. How long is the round trip?

A. 2 hours 24 minutes

B. 4 hours

C. 4 hours 30 minutes

D. 6 hours

E. 5 hours

Q13. A cyclist covers the first 30 km of a 90 km ride at 30 km/h and the remaining 60 km at 20 km/h. What is her average speed for the whole ride?

A. 20 km/h *B.* 25 km/h *C.* 24 km/h *D.* 22.5 km/h *E.* 26 km/h

Q14. A driver must cover 315 km and arrive by 17:00. She can average 70 km/h and wants a 45 minute break on the way. What is the latest time she can leave?

A. 11:15 *B.* 12:30 *C.* 11:45 *D.* 12:00 *E.* 10:45

Q15. The table shows four speeds written in different ways. Which is the fastest?

Traveller	Speed
Car	20 m/s
Bus	65 km/h
Tram	1.1 km each minute
Train	4 000 m in 3 minutes

A. The bus

B. The car

C. The train

D. The tram

E. They are all the same

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