

## Speed, Distance & Time: Hard Practice Paper

Q1. A cyclist rides 24 km at 24 km/h and then a further 24 km at 8 km/h. What is the average speed for the whole ride?

- A. 10 km/h      B. 12 km/h      C. 14 km/h      D. 16 km/h      E. 32 km/h

Q2. A speed of 25 m/s is the same as which speed in kilometres per hour?

- A. 45 km/h      B. 72 km/h      C. 80 km/h      D. 90 km/h      E. 150 km/h

Q3. A train leaves at 14:25 and arrives at 17:10, having travelled 220 km. What is its average speed?

- A. 70 km/h      B. 75 km/h      C. 80 km/h      D. 85 km/h      E. 88 km/h

Q4. Two cyclists are 60 km apart and ride towards each other at 14 km/h and 16 km/h. How long is it before they meet?

- A. 1 hour 30 minutes  
B. 2 hours  
C. 2 hours 30 minutes  
D. 3 hours  
E. 4 hours

Q5. A journey takes 3 hours at a steady 70 km/h. How long would the same journey take at a steady 84 km/h?

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

Q6. A bus travels for 40 minutes at 45 km/h and then for 20 minutes at 60 km/h. How far does it travel altogether?

- A. 40 km      B. 45 km      C. 50 km      D. 55 km      E. 105 km

Q7. A runner runs the first 3 km at 12 km/h and the next 3 km at 9 km/h. How long does the whole run take?

- A. 30 minutes  
B. 32 minutes  
C. 35 minutes  
D. 38 minutes  
E. 40 minutes

Q8. A driver leaves at 07:45 and must complete a 245 km journey by 11:15. What is the lowest average speed that will get there in time?

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

Q9. Train A leaves a station at 10:00 travelling at 60 km/h. Train B leaves the same station at 10:30 on the same route at 90 km/h. At what time does train B catch up with train A?

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

Q10. A light aircraft flies for 1 hour 45 minutes at a steady 240 km/h. How far does it fly?

- A. 360 km      B. 400 km      C. 420 km      D. 440 km      E. 480 km

Q11. A journey is 400 km long. The first 250 km is driven at 100 km/h and the rest at 75 km/h. How long does the whole journey take?

- A. 4 hours
- B. 4 hours 15 minutes
- C. 4 hours 30 minutes
- D. 4 hours 45 minutes
- E. 5 hours

Q12. A cheetah can run at 30 m/s. How far could it run at this speed in 2 minutes?

- A. 600 m
- B. 1800 m
- C. 3600 m
- D. 6000 m
- E. 7200 m

Q13. A walker moving at a steady 6 km/h takes 50 minutes to reach a village. How far away is the village?

- A. 3 km
- B. 4 km
- C. 5 km
- D. 6 km
- E. 7.5 km

Q14. A train travels 1 km every 40 seconds. What is its speed in kilometres per hour?

- A. 40 km/h
- B. 60 km/h
- C. 72 km/h
- D. 90 km/h
- E. 120 km/h

Q15. A driver travels for 1 hour at 90 km/h and then for 3 hours at 50 km/h. What is the 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