

**GS FOUNDATION (2023-24) WORKSHEET 12**  
**&**  
**CSAT FOUNDATION 1.0 (2023-24) WORKSHEET 13**  
**WORKSHEET 15 TIME-SPEED-DISTANCE**

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Q1. A boy walks at  $\frac{1}{3}$  of his usual speed and reaches 20 min late. Find the Usual time taken at reduced speed

- A. 5 minutes
- B. 10 minutes
- C. 15 minutes
- D. 20 minutes

Q2. If Dhoni drives at the rate of 30 kmph, he misses a train by 10 minutes. However, if he drives at the rate of 40 kmph, he reaches the station 5 minutes before the departure of the train. Find the distance of the station?

- A. 16.66 km
- B. 25km
- C. 30km
- D. 33.33km

Q3. Ruchi cycles from metro station A to another metro station B at 18 km / hr and returns back to the metro station A at 12 km / hr. Find her average speed during the entire journey.

- A. 14.4 kmph
- B. 16.6 kmph
- C. 22.27 kmph
- D. 25 kmph

Q4. The ratio between the rates of travelling of A and B is 2 : 3 and therefore, A takes 10 minutes more than the time taken by B to reach a place. If A had walked at double the speed, in what time he would have covered the distance?

- A. 10 minutes
- B. 12.33 minutes
- C. 15 minutes
- D. 18 minutes

Q5. Arun runs twice as fast as Vikas and Vikas runs thrice as fast as Chetan. A certain distance was covered by Chetan in 36 minutes. How much time will Arun take to cover this distance?

- A. 3 minutes
- B. 12 minutes
- C. 5 minutes
- D. 6 minutes

Q6. A man walks from his house to the Railway Station to catch a train, which is running as per schedule. If he walks at 6 km / hr, he misses the train by 9 minutes. However, if he walks at 7 km/hr, he reaches the station 6 minutes before the departure of train. The distance of his home to the Railway Station is \_\_\_\_

- A. 2km
- B. 1.05km
- C. 10.5km
- D. 2.1 km

Q7. A person covers a certain distance by car at a speed of 30 km / h and comes back at a speed of 40 km / h. The average speed during the travel is:

- A. 34.3 kmph
- B. 35 kmph
- C. 32.8 kmph
- D. 33.3 kmph

Q8. A man can row 14 km/h in still water. In the stream flowing with the speed of 10 km/h he takes 4 hours to move with the stream and come back. Find the distance he rowed the boat

- A. 11.71 km
- B. 13.71 km
- C. 14.71 km
- D. 12.71 km

Q9. A streamer goes downstream from one port to another in 4 hours. It covers the same distance upstream in 5 hours. If the speed of stream is 2 km/h, the distance between the two ports is –

- A. 80 km
- B. 81 km
- C. 70 km
- D. 71 km

Q10. Neeraj is going to Agra on his bike from Delhi. He overtakes a bus travelling from Delhi to Agra at 4.30 pm. Neeraj reaches Agra at 6 pm. After stopping there for an hour, he starts back towards Delhi and meets the same bus at 7.30 pm which was moving towards Agra at that time. If both the bus and the bike were travelling with uniform speeds on the same route, at what time would the bus reach Agra?

- A. 9.45 pm
- B. 9.30 pm
- C. 8.45 pm
- D. 9:00 pm

Q11. Anju is waiting on the railway station for the arrival of her train. Two trains running in opposite directions cross Anju on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speed is-

- A. 2:3
- B. 1:2
- C. 3:2
- D. 2:1

Q12. A car driver increases the average speed of his car by 3 km/hr every hour. The total distance travelled in 7 hours if the distance covered in first hour was 30 km, is

- A. 266 km
- B. 273 km
- C. 280 km
- D. 287 km

Q13. If a person travels at a speed of 40km/h he will reach his destination on time. He covered half the journey in  $\frac{2}{3}$  of the time. At what speed (in km/h) should he travel to cover the remaining journey to reach the destination on time?

- A. 48
- B. 50
- C. 60
- D. 72

Q14. A train 600 meters long is running at a speed of 90 kms/hr. If it crosses a tunnel in one minute, then the length of the tunnel is:

- A. 500 meters
- B. 550 meters
- C. 600 meters
- D. 900 meters

Q15. A man can row 5 km/ h in still water. If the speed of the current is 1 km/ h, it takes 3 more hours in upstream than in the downstream for the same distance. The distance is:

- A. 36 km
- B. 24 km
- C. 20 km
- D. 32 km

Q16. Two bus stations, namely Delhi ISBT and Jaipur ISBT are 320 kms apart from each other. A bus starts from Delhi ISBT at 8 a.m. and travels towards Jaipur ISBT at 40 km / hr. Another bus starts from Jaipur ISBT at 9 a.m. and travels towards Delhi ISBT at 30 km / hr. At what time will they meet?

- A. 1 pm
- B. 12:30 pm
- C. 2:30 pm
- D. 2 pm

**Solutions:**

- 1. B
- 2. C
- 3. A
- 4. C
- 5. D
- 6. C
- 7. A
- 8. B
- 9. A
- 10. D
- 11. C
- 12. B
- 13. C
- 14. D
- 15. A
- 16. A