

Time, Speed and Distance Questions - Download PDF now!

Time, Speed and Distance questions are the very popular type of questions in competitive exams. These questions carry a weightage of 2-3 questions (4-6 marks) in SSC exams and 1-2 questions in bank exams. To get a good rank in competitive exams, it is important to be know the distance speed time formula quickly and accurately.

Here are some tips for solving Time, Speed and Distance questions: Know the formulas and relationships, be careful with units, work with the given information to find the unknown, use a diagram or table to help visualize the problem.

So, we have attached 10 questions of Time, Speed and Distance for you to practice with. You should aim to solve these questions in less than half a minute for each.

Practice Questions on Time, Speed and Distance

You can also download the Time, Speed and Distance questions and answers pdf. Just click on the **Download PDF** button. So let's start with the very first question.

Q:1 In a racing competition two men, A and B are participating. The speed of A is 300 m/min and the speed of B is 400 m/min. If the racing competition is for 700 m, find who will win the race and in how much time.

1. B, 1 min 75 sec
2. A, 2 min 20 sec
3. A, 2 min 33 sec
4. B, 1.75 min
5. B, 1 min 45 sec

(**Difficulty: 2, Estimated Time: 15 Seconds**) It was very easy, right?

Q:2 The speed of a boat in still water is 5 km/hr. The boat was going downstream when the speed of the stream was 2 km/hr. The boat had covered $\frac{3}{8}$ of the total distance when the speed of the stream increased by 2 km/hr. What was the average speed of the boat for the whole journey?

1. 7.56 km/hr
2. 8.13 km/hr
3. 9 km/hr
4. 6.90 km/hr
5. None of these

(**Difficulty: 4, Estimated Time: 30 Seconds**) Try decreasing your time used in calculations!

Time, Speed and Distance Questions - Download PDF now!

Q:3 A person covers $\frac{5}{11}$ th of the total distance with a speed of 5 km/hr and the rest with a speed of 3 km/hr. What is the average speed of the person?

1. 3 km/hr
2. 4.5 km/hr
3. 3.67 km/hr
4. 4 km/hr
5. None of these

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) This was quite easier than the previous one but not that much easy.

Q:4 A bike rider covers a 175 km distance and returns up to $\frac{1}{5}$ th of that distance in a total of 7.5 hours. Find the average speed of the journey in m/s.

1. $\frac{50}{3}$ m/s
2. $\frac{60}{9}$ m/s
3. $\frac{70}{9}$ m/s
4. $\frac{40}{3}$ m/s
5. None of these

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Now you have a good practice of such questions.

Q:5 2 dogs run towards each other after seeing a cat between their path. The speeds of the dogs are 20 km/hr and 25 km/hr. They reach to cat at the same time but the faster dog covers 80 meters more than the slower dog. Find the distance between the cat and the slower dog, initially.

1. 400 m
2. 320 m
3. 480 m
4. 560 m
5. 240 m

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) We're halfway through. We will increase the difficulty level from now.

Q:6 Mahesh started from point A towards B with a speed of 25 km/h and after 3 hours, Manish started from point B towards point A with a speed of 40 km/h. Mahesh stopped midway and started waiting for Manish. If Mahesh waited for 45 minutes before Manish arrived then find the distance AB.



Time, Speed and Distance Questions - Download PDF now!

1. 400 km
2. 240 km
3. 320 km
4. 300 km
5. None of these

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Have you got all your questions correct so far?

Q:7 Rajdhani express normally reaches its destination at 80 km/h in 40 hours. Find the speed at which it travels to reduce the time by 15 hours.

1. 108 km/h
2. 115 km/h
3. 128 km/h
4. 100 km/h
5. 150 km/h

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) This was a piece of cake!

Q:8 A man can row upstream at 19 km/h and downstream at 27 km/h. The speed of water current of the river is:

1. 13 km/h
2. 15 km/h
3. 11 km/h
4. 7 km/h
5. 4 km/h

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) You might have wrapped it up in 10 seconds!

Q:9 A person got his leg injured so his speed became $\frac{1}{3}$ of his usual speed and he became late 10 mins late. Find the usual time taken taken by him to cover that distance.

1. 10 mins
2. 14 mins
3. 20 mins

Time, Speed and Distance Questions - Download PDF now!

4. 5 mins

5. 12 mins

(**Difficulty:** 4, **Estimated Time:** 25 Seconds) It is different type of question. But you'll get these type of questions in the exam too. So, prepare yourself!

Q:10 A man covered a certain distance by his bicycle at a rate of 8 km/hr and walked back at the rate of 6 km/hr. The whole journey took 7 hours. Find the distance he travelled.

1. 44 km

2. 32 km

3. 24 km

4. 54 km

5. 60 km

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Did you guess them all correctly?

Answer Key

Let's check out your score in this test.

1. (5)	2. (2)	3. (3)	4. (3)	5. (2)
6. (4)	7. (3)	8. (5)	9. (4)	10. (3)

Comment below your score, considering each question has 1 mark only. If you scored 8 to 10, congratulations! You are one step closer to selection. If you have scored 5 to 8 marks, then you are doing well, keep it up. If you have scored less than 5 marks then you need to work a little harder on this subject. But don't worry, we are here to help you master the subject.

Let's check the answers and solutions and try to find out what went wrong.

Answers and Solutions

Q:1 The correct answer is **option 5** i.e. **B, 1 min 45 sec**

Since the speed of A = 300 m/min

Time, Speed and Distance Questions - Download PDF now!

So, Time is taken by A = $1/300 \times 700 = 2 \text{ min } 20 \text{ sec}$

Now, Since the speed of B = 400 m/min

So, Time is taken by B = $1/400 \times 700 = 1 \text{ min } 45 \text{ sec}$

Hence, B completes the race first in 1 min 45 sec

Q:2 The correct answer is **option 2** i.e. **8.13 km/hr**

Average speed = Total distance covered/Total time taken

Let the total distance be x

Time taken to cover $3/8$ of x when speed of stream was 2 km/hr = $(3/8)x/(5 + 2) = 3x/56$

Time taken to cover $5/8$ of x when speed of stream was 4 km/hr = $(5/8)x/(5 + 4) = 5x/72$

Average speed = $x/[(3x/56) + (5x/72)] = 1/(3/56 + 5/72) = 8.13 \text{ km/hr}$

Q:3 The correct answer is **option 3** i.e. **3.67 km/hr**

Average speed = total distance covered/total time taken

Let the total distance covered be x km

time = distance/speed

time taken to cover $5/11$ of total distance = $t_1 = (5/11)x/5 = 5x/55 = x/11$

time taken to cover $6/11$ of total distance $t_2 = (6/11)x/3 = 2x/11$

Average speed = $x/(t_1 + t_2) = x/(x/11 + 2x/11) = 11/3 = 3.67 \text{ km/hr}$

Q:4 The correct answer is **option 3** i.e. **70/9 m/s.**

From the question:

Total distance covered by the bike rider = $175 + 175/5 = 175 + 35 = 210 \text{ km}$

Total time = 7.5 hours

So, Average speed of the journey = $210/7.5 = 28 \text{ km/h} = 28 \times 5/18 = 70/9 \text{ m/s}$



Time, Speed and Distance Questions - Download PDF now!

Q:5 The correct answer is **option 2** i.e. **320 m**

Suppose they reach to cat after 1 minute:

So, difference of distance covered by 2 dogs in 1 minute = $(25 - 20) \times 1/60 = 5/60 \text{ km} = 500/6 \text{ m}$

Since the fast dog covers 80 meters more than the slower dog

So, Time in which they reach the cat = $80/(500/6) = 0.96 \text{ minute}$

Hence, Distance between the cat and the slower dog = $0.96/60 \times 20 = 0.32 \text{ km}$ or 320 m

Q:6 The correct answer is **option 4** i.e. **300 km**

Suppose total distance AB = x km

So, Time taken by Mahesh to reach midway = $(x/2)/25 = x/50 \text{ hours}$

Time taken by Manish to reach midway = $(x/2)/40 = x/80 \text{ hours}$

Since Manish started 3 hours after Mahesh and Mahesh waited for 45 minutes (= 0.75 hours) also.

So, $x/50 + 0.75 = x/80 + 3$

$(x/50 - x/80) = 2.25$

$3x/400 = 2.25$

$x = 300$

Hence, Distance AB = 300 km

Q:7 The correct answer is **option 3** i.e. **128 km/h**

Given

Speed = 80 km/h

Time = 40 hours

Distance = Speed \times Time = $80 \times 40 = 3200 \text{ km}$

New time = $40 - 15 = 25 \text{ h}$



Time, Speed and Distance Questions - Download PDF now!

∴ Required speed = $200/25 = 128$ km/h

Q:8 The correct answer is **option 5** i.e. **4 km/h**

Let the speed of man and water current be x and y respectively

According to question

$$x - y = 19 \quad \text{---(1)}$$

$$x + y = 27 \quad \text{---(2)}$$

From equation (1) and (2)

$$x = 23 \text{ and } y = 4$$

∴ The speed of water current of the river

4 km/h

Q:9 The correct answer is **Option 4** i.e. **5 mins.**

If a person changes his speed to m/n of its usual speed and becomes late by T minutes, then the usual time taken by him is $T/(n/m - 1)$

Therefore the usual time = $T/(n/m - 1) = 10/(3 - 1) = 5$ mins.

Q:10 The correct answer is **Option 3** i.e. **24 km.**

If a man travels certain distance at x km/hr and comes back at the rate of y km/hr and the whole journey takes t hours, then the distance travelled is $\{x \times y / (x + y)\} \times t$

Therefore, Distance travelled = $(8 \times 6 / 8 + 6) \times 7 = 24$ km.

So, this is it for today. We will meet again with another new topic. Till then, you can practice the questions again by downloading the PDF of Time, Speed and Distance.