

## Time Speed And Distance Questions Overview

Time Speed And Distance Questions have a good weightage in the Ssc Chsl Exam and the type of question asked in Ssc Chsl exam is similar to the question mentioned below. It has been solved and explained by KD Live Experts under the guidance of Neetu Mam and they have tried to elaborate the concept used in Time Speed And Distance Questions.

## Question On Time Speed And Distance

When a boat travels upstream it takes 14 hours to reach the destination, while it takes 10 hours to back to the starting point downstream. Find the collective speed of the boat upstream and downstream.

Difficulty : Moderate

Average Time : 38 Seconds

## Time Speed And Distance Questions Options

1. 12 km/hr
2. 8 km/hr
3. 14 km/hr
4. 10 km/hr

## Time Speed And Distance Questions Solution

The correct answer is **option 1** i.e. **12 km/hr**.

Let the speed of the boat in still water be  $x$  km/hr and the speed of the stream be  $y$  km/hr

So, Downstream speed =  $(x + y)$  km/hr

Upstream speed =  $(x - y)$  km/hr

**Case I:**

Time = Distance/Speed

$$D/(x + y) = 10 \dots(i)$$

**Case II:**

Time = Distance/Speed

$$D/(x - y) = 14 \dots\dots(ii)$$

From equation (i) and (ii)

$$10(x + y) = 14(x - y)$$

$$10x + 10y = 14x - 14y$$

$$- 4x = - 24y$$

$$x/y = (-24)/(-4) = 6$$

Hence, collective speed =  $(x + y) + (x - y) = (7 + 5) = 12$  km/hr

## Time Speed And Distance Questions Tips and Tricks



1. Try to solve Time Speed And Distance Questions without taking any help from the solutions.
2. Time Speed And Distance Questions require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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## Further Guidance on Time Speed And Distance Questions

For Asking any query on Time Speed And Distance Questions please mail [Send Email](#) or you can fill the form at [KD Live](#).

## About KD Live

KD live has an expertise in providing apt explanations for the Time Speed And Distance Questions since 2008. More than 10 lakh aspirants have cleared competitive exams under the guidance of Neetu Mam. Study.kdcampus.live is providing free information on various topics and for the Ssc Chsl Exam you can refer the following link [Click Here](#) however if you want to practice more questions then please refer the following link [Click Here](#).

## About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Time Speed And Distance Questions. She has guided her team to provide the best explanation for the question.