

Time Speed And Distance Questions Overview

Time Speed And Distance Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Time Speed And Distance Questions.

Question

Two ships A and B start from two different points P and Q respectively on a river towards each other and initially both the points are 50 km apart. The river is flowing at the rate of 10 km/h from P to Q and speed of ships A and B in still water is 30 km/h and 70 km/h, then distance travelled by ship B is how much more than that by ship A when both the boats meet with each other?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 15 km
2. 10 km
3. 12 km
4. 5 km
5. 8 km

Solution

The correct answer is option 2 i.e. 10 km

River is flowing from P to Q. So, downstream speed of ship A = $30 + 10 = 40$ km/h

Upstream speed of ship B = $70 - 10 = 60$ km/h

Effective speed of both the ships when travelling in opposite direction = $40 + 60 = 100$ km/h

Time after which both the ships met = $50/100 = 0.5$ hours

Distance travelled by ship A in 0.5 hours = $40 \times 0.5 = 20$ km

Distance travelled by ship B in 0.5 hours = $60 \times 0.5 = 30$ km

Required difference = 30 - 20

