

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

Ratio between length of trains A and B is 3 : 5. Speed of train A is 72 km/h and that of train B is 54 km/h & they are running opposite to each other. If train A crosses train B in 16 seconds then find length of train B.

Difficulty : Moderate

Average Time : 38 Seconds

Options :

1. 350 m
2. 250 m
3. 450 m
4. 150 m
5. 320 m



Solution

The correct answer is **option 1** i.e. **350 m**.

Let length of train A = 3x

Length of train B = 5x

Speed of train A = $72 \times \frac{5}{18} = 20$ m/sec

Speed of train B = $54 \times \frac{5}{18} = 15$ m/sec

ATQ,

$$\frac{3x}{20+15} = 16 \quad x = 70$$

Length of train B = $5 \times 70 = 350$ m