

# Mixtures And Alligations Questions Overview

Mixtures And Alligations 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 Mixtures And Alligations Questions.

## Question

Rs. 1800 is given at 20% per annum SI while Rs (1800 - P) is given at 30% per annum CI. If the difference between both interests at the end of two years is Rs 315. Find P

Difficulty : Moderate

Average Time : 34 Seconds

Options :

1. Rs. 200
2. Rs. 300
3. Rs. 400
4. Rs. 100
5. None of these

## Solution

The correct answer is **option 2** i.e. **Rs. 300**

$$\text{Total S.I.} = \left(\frac{1800 \times 2 \times 20}{100}\right) = \text{Rs. } 720$$

$$\text{Total C.I.} = \left((1800 - P) \left[1 + \frac{30}{100}\right]^2 - 1\right)$$

$$= (1800 - P) \times \left(\frac{69}{100}\right)$$

$$\text{ATQ, } (1800 - P) \times \left(\frac{69}{100}\right) - 720 = 315$$

$$\text{or, } (1800 - P) = \left(\frac{100}{69}\right) \times 1035$$

$$\text{or, } 1800 - P = 1500$$

$$P = 300$$