

# 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

200 ml honey is added in some quantity of milk. If another mixture of equal volume having ratio of honey and milk 4 : 11 is mixed in the first mixture then ratio of honey and milk in the final mixture becomes 1 : 4. What is the quantity of milk in first mixture?

Difficulty : Difficult

Average Time : 38 Seconds

Options :

1. 1800 ml
2. 1200 ml
3. 1300 ml
4. 800 ml
5. 1100 ml

## Solution

The correct answer is **option 3** i.e. **1300 ml**.

Suppose the quantity of milk in first mixture is X ml.

So, Quantity of both mixtures each = (X + 200) ml

Since the ratio of honey and milk in 2nd mixture is 4 : 11

So, Quantity of honey in 2nd mixture =  $\frac{4}{15} \times (X + 200)$

And Quantity of milk in 2nd mixture =  $\frac{11}{15} \times (X + 200)$

Ratio of honey and milk in final mixture becomes 1 : 4

So,  $[\frac{4}{15} \times (X + 200) + 200] : [\frac{11}{15} \times (X + 200) + X] = 1 : 4$

$$[4X + 800 + 3000] : [11X + 2200 + 15X] = 1 : 4$$

$$[4X + 3800] : [26X + 2200] = 1 : 4$$

$$26X + 2200 = 16X + 15200$$

$$10X = 13000$$

$$X = 1300$$

Hence, quantity of milk in first mixture = 1300 ml

