

# 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

From the 50 litres of milk, 5 litres of milk is taken out and 5 litres of water is added in the remaining milk. If this process is repeated again, then find the amount of milk left.

Difficulty : Moderate

Average Time : 35 Seconds

Options :

1. 40 litres
2. 40.5 litres
3. 45.5 litres
4. 45 litres
5. 47 litres



## Solution

The correct answer is **option 2** i.e. **40.5 litres**

Understanding	Application
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If X litres of mixture is there and Y litres is replaced N times, then final ratio =  $X \times (X - Y/X)^N$

Hence,

Final amount of milk

$$= 50 \times (1 - 5/50)^2$$

$$\approx 50 \times (45/50)$$

$$= 50 \times (9/10)^2$$

$$= 40.5 \text{ Litres}$$

