

# Trigonometry Questions Overview

Trigonometry 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 Trigonometry Questions.

## Question

In a vessel, there are two types of liquids A and B in the ratio of 5 : 9. 28 lit of the mixture is taken out and 2 lit of type B liquid is poured into it, the new ratio(A:B) thus formed is 1 : 2. Find the initial quantity of mixture in the vessel?

Difficulty : Moderate

Average Time : 37 Seconds

Options :

1. 84 lit
2. 42 lit
3. 50 lit
4. 56 lit
5. 70 lit

## Solution

The correct answer is **option 4** i.e. **56 lit**

Let the initial quantity of mixture in vessel be x

lit

ATQ,

$$(x \times \frac{5}{14}) - 10(x \times \frac{9}{14}) - 18 + 2 = 1/2$$

$$(5x - 140)/(9x - 224) = 1/2$$

$$10x - 280 = 9x - 224$$

$$x = 56 \text{ lit}$$