

Pipes And Cistern Questions Overview

Pipes And Cistern 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 Pipes And Cistern Questions.

Pipes And Cistern Questions

Directions: What will come in the place of the question mark (?) in the following number series?

Question

Two pipes A and B can fill a tank in 16 hrs and 12 hrs respectively. The capacity of the tank is 240 litres. Both the pipes are opened simultaneously and closed after 2 hrs each. How much more water (In Liters) needed to fill the tank?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 100
2. 170
3. 70
4. 190
5. None of these

Solution

The correct answer is **Option 2** i.e. **170**.

Total capacity of tank = LCM of 16 and 12 = 48 units

Efficiency of Pipe A = $48/16 = 3$ units

Efficiency of Pipe B = $48/12 = 4$ units

Amount of tank filled by them in 2 hours = $7 \times 2 = 14$ units

Hence, tank left = $(48 - 14) = 34$ units

But according to question = 48 units = 240 litres

Hence, tank left (in litres) = $34 \times 240/48 = 170$ litres

