

Mathematical Inequality Questions Overview

Mathematical Inequality 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 Mathematical Inequality Questions.

Mathematical Inequality Questions

Direction: In the given statement, the relationship between different elements is shown and it is followed by two conclusions. Choose the correct answer on the basis of the information given below.

Question

Statement: In a weighing machine, on the left plate 1 Kg and 5 Kg iron bars were present and on the right plate 2 Kg, 0.5 Kg, and some x Kg rice were present. Right side plate - Left side plate = 0.3 Kg
Conclusions: I. $4 \text{ Kg} > x > 3 \text{ Kg}$ II. $x > 3.5 \text{ Kg}$

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Only I is true
2. Only II is true
3. Both I and II are true
4. Either I or II is true
5. Neither I nor II is true

Solution

The correct answer is **Option 3** i.e. **Both I and II are true**

Understanding

Statement: Right plate - Left plate = 0.3 Kg

$$(2 + 0.5 + x) - (1 + 5) = 0.3$$

$$x = 3.8$$

Conclusions:

I. $4 \text{ Kg} > x > 3 \text{ Kg}$: **True** (as $x = 3.8$ which is greater than 3 and less than 4)

II. $x > 3.5 \text{ Kg}$: **True** (as $x = 3.8 \text{ Kg}$)

Hence, the correct answer is **Only II is true.**

