

# Number Series Questions Overview

Number Series 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 Number Series Questions.

## Number Series Questions

Direction: Given below are three series: I, II, and III. Each of the series has the wrong number. Assuming A, M, and P are the wrong numbers and B, N, and Q are the correct numbers, which should replace them in the series I, II, and III, respectively, answer the questions that follow. Series I: 14, 62, 72, 118, 126 Series II: 7, 21, 67, 142, 247 Series III: 12, 18, 45, 156, 708.75

## Question

If the fraction is in the form of  $(2X - 7)/2B = 1/(A + M)$  then find the value of X. (correct upto two decimal places)

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 5.05
2. 4.05
3. 3.55
4. 2.45
5. 4.25

## Solution

The correct answer is **Option 5** i.e. **4.25**.

**Series I:** 14, 62, 72, 118, 126

$$14 + (16 \times 3) = 14 + 48 = 62$$

$$62 + (16/2) = 62 + 8 = 70 \text{ (not 72)}$$

$$70 + (16 \times 3) = 70 + 48 = 118$$

$$118 + (16/2) = 118 + 8 = 126$$

Hence, the values of A and B are 72 and 70, respectively

**Series II:** 7, 21, 67, 142, 247

$$7 + (15 \times 1) = 7 + 15 = 22 \text{ (not 21)}$$

$$22 + (15 \times 3) = 22 + 45 = 67$$

$$67 + (15 \times 5) = 67 + 75 = 142$$

$$142 + (15 \times 7) = 142 + 105 = 247$$

Hence, the values of M and N are 21 and 22, respectively

**Series III:** 12, 18, 45, 156, 708.75

$$12 + (12 \times 0.5) = 12 + 6 = 18$$

$$18 + (18 \times 1.5) = 18 + 27 = 45$$

$$45 + (45 \times 2.5) = 45 + 112.5 = 157.5 \text{ (not 156)}$$

$$157.5 + (157.5 \times 3.5) = 157.5 + 551.25 = 708.75$$

Hence, the values of P and Q are 156 and 157.5

Now, according to the question

$$(2X + 7)/2B = 1/(A + M)$$

put the value of B, A, and M

$$(2X - 7)/2 \times 70 = 1/(72 + 21)$$

$$(2X - 7)/140 = 1/93$$

$$(2X - 7) = 140/93 = 1.50$$

$$2X = (1.50 + 7) = 8.5$$

$$X = 4.25$$