Smartkeeda
The Question Bank

TESTZONE

बैंक परीक्षाओं के लिए निश्चित रूप से सर्वश्रेष्ठ टेस्ट सीरीज

Kriti Advani
IBPS PO 2020, Clerk, RRB Clerk

Rahul Jha
All IBPS 2020 Exams

Kola Murali Krishna Sai
SBI PO & IBPS PO 2020

Nimish Mishra
IBPS RRB PO & IBPS Clerk 2020

Abhishek Raj
IBPS PO & RRB PO 2020

Subha Saha
IBPS PO & IBPS CLERK 2020

IT'S YOUR TURN NOW TAKE A FREE MOCK TEST

"Friends!
We used TESTZONE
And Cracked Bank Exams"

DI Info Chart Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains, IBPS Clerk Mains and RRB Scale I Pre Exams.

DI Info Chart No 43

Directions: Study the following information carefully and answer the questions given beside.

Aman, Binoy and Chintu are three friends who go out to explore the city. They ate their breakfast, lunch and dinner in the market and split the total bill. The amount spent by Aman on breakfast and lunch is in the ratio 3 : 4, while that spent by Chintu on lunch and dinner is in the ratio 11 : 7.

The amount paid by Aman on Dinner and Chintu on breakfast is equal. In lunch, the share of Binoy is the average of Aman and Chintu. The money spent by Aman on Breakfast and lunch is 700/9% of the money spent by Chintu on lunch and dinner. The ratio of breakfast, lunch and dinner in the total bill is 58 : 57 : 65. In the end Aman gives Chintu Rs. 20, to make the share of each of them equal.

1. What is the ratio of amount spent by Aman on breakfast and dinner to the amount spent by Chintu on breakfast and dinner?

A. 19 : 21 B. 7 : 11 C. 22 : 15 D. 20 : 21 E. None of these

2. The amount spent on dinner by Binoy is what percent of the total amount spent by him?

A. 38.33% B. 35% C. 29% D. 37.66% E. None of these

3. What is difference between the total amount spent on breakfast and dinner?

A. Rs. 20 B. Rs. 25 C. Rs. 45 D. Rs. 30 E. Rs. 35

4. The amount spent by Aman on breakfast, Binoy on lunch and Chintu on dinner is what percent of the total expenditure of all three?

A. 29% B. 23.33% C. 22% D. 25% E. None of these

5. What would have been the ratio of total amount spent by Aman and Binoy, had they split the dinner amount paid by Chintu between them evenly?

A. 6 : 7 B. 14 : 37 C. 63 : 67 D. 9 : 11 E. None of these

Correct Answers:

1	2	3	4	5
D	A	E	D	C

Common explanations :

Aman (Breakfast) = A (B); Aman (Lunch) = A (L) ,and likewise for Binoy and Chintu

A (B) : A (L) = 3 : 4 (7units)

C (L) : C (D) = 11 : 7 (18 units)

A (B) + A (L) = 77 7/9 % {C(L) + C(D)}

$$\frac{A(B) + A(L)}{C(L) + C(D)} = \frac{7}{9} = \frac{14}{18}$$

A (B) + A (L) = 14k → A (B) = 6k; A (L) = 8k

C (L) + C (D) = 18k → C (L) = 11k ; C (D) = 7k

As A (D) = C (B), Difference between amount of A and C will be

C (L) + C(D) – A(B) – A(L) = 18k – 14k = 4k

As Aman gives Rs. 20 to Chintu to make the contribution of all three equal, the original difference between them must have been Rs 40.

So, 4k = 40 → k=10

A (B) = 6k = 60, A (L) = 8k = 80

C (L) = 11k = 110, C (D) = 70

Now, B (L) = $\frac{\{A(L) + C(L)\}}{2} = \frac{110 + 80}{2} = 95$

Total lunch = A (L) + B (L) + C (L) = 80 + 95 + 110 = 285

Breakfast: Lunch: Dinner = 58 : 57 : 65

If Lunch (57units) = 285 → Breakfast (58 units) = 290 & Dinner (65 units) = 325

Total = 285 + 290 + 325 = 900

Contribution of them becomes equal after Aman gives Chintu Rs. 20, so contribution of Aman previously was Rs. 20 less and that of chintu was Rs. 20 more than the average contribution of all three (which is 900/3 = 300).

So, Aman + 20 = Binoy = Chintu - 20 = 900/3 = 300

So, Aman = 300 - 20 = 280, Binoy = 300 and Chintu = 300 + 20 = 320

Aman(D) = 280 - 60 - 80 = 140

So A(D) = C(B) = 140

	Breakfast	Lunch	Dinner	Total
Aman	60	80	140	280
Binoy	90	95	115	300
Chintu	140	110	70	320
Total	290	285	325	

Answers :

1. Following the common explanation, we get

Aman (B + D) = Rs. (60 +140) = Rs. 200

Chintu (B + D) = Rs. (140 + 70) = Rs. 210

Ratio = 20 : 21

Hence, Option D is correct.

2. Following the common explanation, we get

Amount spent by Binoy(dinner) = Rs. 115

Total amount spent by Binoy = Rs. 300

As percent = $\frac{115}{300} \times 100 = 38.33\%$

Hence, option A is correct.

3. Following the common explanation, we get

Dinner – breakfast = 325 – 90 = Rs. 35

Hence, Option E is correct.

4. From common explanation, we have

A (B) + B (L) + C (D) = 60 + 95 + 70 = 225

As a percent of total = $\frac{225}{900} \times 100 = 25\%$

Hence, Option D is correct.

5. From common explanation, we have

Chintu(dinner) = 70

If equally split between Aman and Binoy

Aman = 280 + 35 = 315; Binoy = 300 + 35 = 335

Ratio = 315 : 335 = 63 : 67

Hence, Option C is correct.