Date Interpretation Info Chart Questions Quiz for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

DI Info Chart Quiz 14

Directions: Study the given information carefully to answer the questions.

Three friends Seeta, Reeta and Geeta spends 12%, 14% and 16% of their monthly salary on travelling in the given order and each of them save half of the remaining amount. The monthly salary of Seeta and Geeta is same and the monthly saving of Seeta is Rs. 360 more than that of Geeta. The total expenditures of Seeta and Reeta together on travelling is Rs. 1240 more than that of Geeta.

1. What is the monthly expenditure of Seeta and Reeta together on travelling?

A. Rs. 4240 B. Rs. 4120 C. Rs. 3890 D. Rs. 4480 E. None of these

2. The monthly salary of Reeta is how much more than/less than that of Seeta?

A. Rs. 0 B. Rs. 3000 more C. Rs. 4000 more D. Rs. 3000 less E. Rs. 4000 less

3. What is the sum of the saving of all the three friends together?

A. Rs. 21500 B. Rs. 22480 C. Rs. 24000 D. Rs. 20800 E. None of these

4. The total monthly saving of three friends together is what percentage of their total monthly salary?

A. 42% B. 44% C. 41% D. 43% E. None of these

5. By how much should Seeta's monthly salary be increased so the monthly expenditures of Seeta on travelling will become equal to that of Geeta?

A. Rs. 4000 B. Rs. 6000 C. Rs. 8000 D. Rs. 3600 E. None of these

Correct Answers:

1	2	3	4	5
B	E	A	D	B

Common Explanation :

Let the monthly salary of Seeta = Rs. 100x

Then, Monthly expenditures on travelling = 12% of 100x = Rs. 12x

Remaining = Rs. (100x – 12x) = Rs. 88x

Saving = $\frac{88x}{2}$ = Rs. 44x

Reeta's month salary = Rs. 100y

Then, Monthly expenditures on travelling = 14% of 100x = Rs. 14y

Remaining = Rs. (100y – 14y) = Rs. 86y

Saving = $\frac{86y}{2}$ = Rs. 43y

The monthly salary of Geeta = The monthly salary of Seeta = Rs. 100x

The monthly expenditures of Geeta on travelling = 16% of 100x = Rs. 16x

Remaining = Rs.(100x – 16x) = Rs. 84x

Saving = $\frac{84x}{2}$ = Rs. 42x

The monthly salary of Seeta and Geeta are same and the monthly saving of Seeta is Rs. 360 more than that of Geeta

44x – 42x = 2x = 360

x = 180

The total expenditures of Seeta and Reeta together on travelling is Rs. 1240 more than that of Geeta.

12x + 14y = 16x + 1240

14y = 4x + 1240 = 720 + 1240 = 1960

y = 140

Answers :-

1. Following common explanation, we get

The monthly expenditure of Seeta and Reeta together on travelling = Rs. (12x + 14y) = Rs. (12 × 180 + 14 × 140)

= Rs. (2160 + 1960) = Rs. 4120

Hence, option B is correct.

2. Following common explanation, we get

The monthly salary of Reeta = Rs. 100y = Rs. 14000

The monthly salary of Seeta = Rs. 100x = Rs. 18000

The required answer = Rs. (14000 – 18000) = 4000 less than that of Seeta

Hence, option E is correct.

3. Following common explanation, we get

The required sum = Rs. (44x + 43y + 42x) = Rs. (86x + 43y) = Rs. (86 × 180 + 43 × 140) = Rs. (15480 + 6020) = Rs. 21500

Hence, option A is correct.

4. Following common explanation, we get

Their total monthly salary = Rs. (100x + 100y + 100x) = Rs. (200x + 100y) = Rs. (36000 + 14000) = Rs. 50000

Total monthly saving = Rs. (44x + 43y + 42x) = Rs. (86x + 43y) = Rs. (86 × 180 + 43 × 140) = Rs. (15480 + 6020) = Rs. 21500

The reqd. answer = $\frac{21500 \times 100}{50000}$ = 43%

Hence, option D is correct.

5. Following common explanation, we get

The monthly expenditures of Seeta = Rs. 12X = Rs. 12 × 180 = Rs. 2160

The monthly expenditures of Geeta = Rs. 16X = Rs. 180 × 16 = Rs. 2880

Let the monthly salary of Seeta was increased by a% then

12% of [(100 + a)% of 18000] = 2880

12% of [18000 + a × 180] = 2880

2160 + 21.6a = 2880

21.6a = 720

$a = \frac{7200}{216}\% = 33.33\%$

The required answer = 33.33% of 18000 = Rs. 6000

Hence, option B is correct.