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 11

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

One day, in an SBI Branch the attendance of all the employees was 100% but all the employees were not punctual to the office nor did all the employees stayed till the end of the office time. On that day, of all the employees who arrived early at the office, 20% of them left early but 40% of them left late and rest of them left on time. Of the employees who arrived late at the office, 50% of them left late but 25% of them left on time and rest of them left early. Of the employees who arrived on time, 37.5% of them left early and an equal number of them left late but rest of them left on time. The number of employees who arrived early was equal to the number of employees who left on time and the number of employees who left early was 39 more than the number of employees who arrived late at the office. The number of employees who didn't leave on time was 144.

1. What is the difference between the total number of employees who left early and the total number of employees who left late?

A. 18 B. 16 C. 20 D. 22 E. None of these

2. What is the total number of employees working in that branch?

A. 208 B. 212 C. 204 D. 210 E. None of these

3. Find the respective ratio of the number of employees who arrived early, the number of employees who arrived on time, and the number of employees who arrived late?

A. 5 : 10 : 2 B. 5 : 8 : 4 C. 10 : 9 : 8 D. 5 : 8 : 5 E. None of these

4. Suppose on the day before yesterday of that day 25% of the total number of employees was on leave on the medical ground and 33.33% of the remaining was on leave for personal reason then how many employees was present on the day before yesterday of that day?

A. 51 B. 102 C. 119 D. 65 E. None of these

5. The total number of employees who left on time was how much percent more than/less than the total number employees who didn't leave on time?

A. 75% B. 80% C. 58.33% D. 58.50% E. 75.50%

Correct Answers:

1	2	3	4	5
A	C	A	B	C

Common explanation :

Let the number of employees who arrived early = 5x
The number of employees who left early = 20% of 5x = x
The number of employees who left late = 40% of 5x = 2x
The number of employees who left on time = 5x – 3x = 2x
Let the number of employees who arrived late at the office = 4z
The number of employees who left late = 50% of 4z = 2z
The number of employees who left on time 25% of 4z = z
The number of employees who left early = 4z – 3z = z
Let the number of employees who arrived on time = 8y
The number of employees who left early = 37.5% of 8y = 3y = The number of employees who left late
The number of employees who left on time = 8y – 6y = 2y

	Early	On time	Late
Arrived	5x (assume)	8y (assume)	4z (assume)
Left	X + 3y + z	2x + z + 2y	2x + 2z + 3y

According to the question,
5x = 2x + z + 2y
3x = z + 2y ------- (i)

The number of employees who didn't arrive on time = x + 3y + z + 2x + 2z + 3y = 144
3x + 3z + 6y = 144

From the equation (i), 9x = 3z + 6y ----- (ii)
Therefore, 3x + 9x = 12x = 144
X = 12
Again, according to the question,
x + 3y + z = 4z + 39
3y – 3z = 27 ---------- (iii)
Adding equation (ii) and equation (iii)
9y = 9x + 27
Y = x + 3 = 12 + 3 = 15
From the equation (iii)
3z = 45 – 27 = 18
Z = 6

Answers :-

1. The following common explanation, we get

	Early	On time	Late
Arrived	5x (assume)	8y (assume)	4z (assume)
Left	X + 3y + z	2x + z + 2y	2x + 2z + 3y

the total number of employees who left early = X + 3Y + Z = 12 + 45 + 6 = 63

the total number of employees who left late = 2X + 2Z + 3Y = 24 + 12 + 45 = 81

The required difference = 81 – 63 = 18

Hence, option A is correct.

2. The following common explanation, we get

the total number of employees working in that branch = 5x + 8y + 4z = 60 + 120 + 24 = 204

Hence, option C is correct.

3. The following common explanation, we get

The respective ratio = 5x : 8y : 4z = 60 : 120 : 24 = 5 : 10 : 2

Hence, option A is correct.

4. The following common explanation, we get

the total number of employees working in that branch = 5x + 8y + 4z = 60 + 120 + 24 = 204

of the total number of employees was on leave on the medical ground = 25% of 204 = 51

Remaining = 204 – 51 = 153

The number of employees who was on leave for personal reason = 33.33% of 153 = 51

The number of employees present on the day before yesterday of that day = 153 – 51 = 102

Hence, option B is correct.

5. The following common explanation, we get

The number of employees who left on time = 2x + z + 2y = 24 + 6 + 30 = 60

The number of employees who didn't leave on time = x + 3y + z + 2x + 2z + 3y = 3x + 6y + 3z = 36 + 90 + 18 = 144

The reqd. % = $\frac{(144 - 60) \times 100}{144} = \frac{84 \times 100}{144}$ = 58.33% approx.

Hence, option C is correct.