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Date Interpretation Info Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, RBI Assistant Pre, LIC Assistant Pre and IBPS RRB Exams.

DI Info Chart Quiz 24

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

Out of 200 people who attended a birthday party 100 had Ice-cream, 120 had cold drink, 80 had cake and 10 had none of these three. 100 people had exactly one of three items.

1. How many people had exactly two of the three items?

A. 98 B. 85 C. 110 D. 80 E. 70

2. If 20 people had only cold drink and ice-cream, then how many people had only cake?

A. 25 B. 10 C. 20 D. 18 E. 12

3. If 15 people who had only cold drink, had cake also and 5 people who had only ice-cream and cake had cold drink also, then how many people had at least two of the three items?

A. 98 B. 119 C. 78 D. 105 E. 135

4. If 30 people had only ice-cream, then how many people had at least one of cake or cold drink but not ice-cream?

A. 90 B. 108 C. 87 D. 98 E. 105

5. What is the maximum possible number of people who had only cold drink?

A. 118 B. 87 C. 90 D. 120 E. 130

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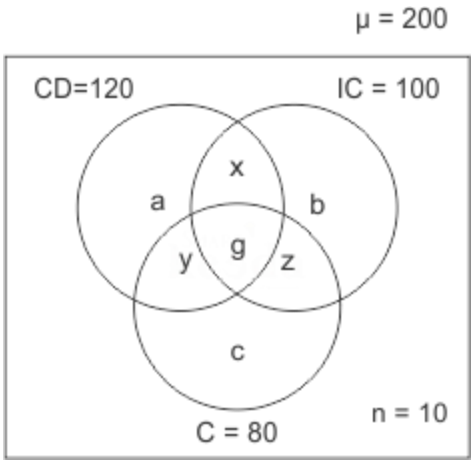
Correct Answers:

1	2	3	4	5
E	B	D	A	C

Common explanation :

The given information can be represented in the following venn diagram.



CD = Cold drink

IC = Ice cream

C = Cake

It is given that, a + b + c = 100

a + b + c + x + y + z + g + n = μ = 200

100 + (x + y + z) + g + 10 = 200

x + y + z + g = 90 ...(1)

CD+IC+C = (a + b + c) + 2 (x + y + z) + 3g = 300

→ 2 (x + y + z) +3g = 200 ...(2)

From (1) and (2), we get g = 20

x + y + z = 70

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Explanations:

1. Following the common explanation, we get

The number of people who had exactly two of three = 70

Hence, option E is correct.

2. Following the common explanation, we get

It is given that x = 20

y + z = 50

The number of people who had only cake = 80 – 50 – 20 = 10

Hence, option B is correct.

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3. Following the common explanation, we get

15 people who had only cold drink had cake also, value of 'a' reduces by 15 and value of 'y' increase by 15.

5 people who had only ice-cream and cake had cold drink also.

i.e., value of 'z' decreases by 5 and that of g increases by 5. The number of people who had at least two of the three items

→ x + y + z + g = x + (y + 15) + (z – 5) + (g + 5)

→ x + y + z + g + 15 = 70 + 20 + 15 = 105

Hence, option D is correct.

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4. Following the common explanation, we get

It is given that b = 30

→x + z = IC – b – g = 100 – 30 – 20 = 50

As, a + b + c = 100,

a + c + y = 70 + 20 = 90

Hence, option A is correct.

5. Following the common explanation, we get

We need to find the maximum value of a.

a can be maximum when x + y is minimum.

x + y can be minimum when z is maximum.

As g = 20 and y + g + z + c = 80

Z_{max} = 60 (c_{min} = 0)

As x + y + z = 70, $x_{min} + y_{min}$ = 10

a_{max} = CD – y_{min} – x_{min} – g

→120 – 10 – 20 = 90

Hence, option C is correct.

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