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Date Interpretation Table Chart Questions for IBPS PO Mains, SBI PO Mains and RBI Grade B Exams.

DI Table Chart Quiz 60

Directions: Study the following table chart carefully and answer the questions given beside:

There are total of 1000 employees working in four departments in Central secretariat - Patna. Canteen Management of Central secretariat was surveyed for their preference of Indian Food Lover or Chinese Food Lover. The table gives the proportion of Indian Food Lover or Chinese Food Lover in each of the four departments.

Department	Indian Food Lover	Chinese Food Lover
AYUSH		0.6
Consumer Affairs	0.25	
Farmer Welfare		
Backward communities Development		0.7
Total	0.45	

The number of employees surveyed in the four departments are in the ratio 1 : 2 : 3 : 4

1. If 10% of Indian food lover in the Consumer Affairs Department are females, then what is the number of male employees in the Consumer Affairs Department who are Indian food lover?

- A. 30 B. 35 C. 40 D. 45 E. None of these

2. What is the percentage of the Indian Food Lover in that department which has the highest number of Chinese Food Lover?

- A. 26.7% B. 34.5% C. 44.0% D. 59.2% E. 73.0%

3. If 5% and 20% of Indian Food Lover of AYUSH Department and Farmer Welfare Department respectively converted into Chinese Food Lover, as well as 20% each of Chinese Food Lover of Backward communities Development Department and Consumer Affairs Department converted into Indian Food Lover then what is the approximate percentage of Indian Food Lover to Chinese Food Lover of the employees?

- A. 72% B. 81% C. 88% D. 95% E. None of these

4. What is the ratio of Indian Food Lover of AYUSH department and Backward communities Development department combined together to the Chinese Food Lover of Consumer Affairs department and Farmer Welfare department combined together?

A. 15 : 19

B. 16 : 21

C. 17 : 21

D. 17 : 25

E. 16 : 25

5. If 5%, 10%, 15% and 20% of Chinese Food Lover in the Farmer Welfare, AYUSH, Backward communities Development and Consumer Affairs department respectively are females, then what is the approx percentage of male Chinese Food Lover employees to the total Indian Food Lover employees?

A. 100%

B. 109%

C. 112%

D. 125%

E. None of these

Correct Answers:

1	2	3	4	5
D	A	D	B	E

Common explanation :

Total number of employees in Central secretariat – Patna = 1000

Number of employees in AYUSH department = $\frac{1}{1+2+3+4} \times 1000 = 100$

Number of employees in Consumer Affairs department = $\frac{2}{1+2+3+4} \times 1000 = 200$

Number of employees in Farmer Welfare department = $\frac{3}{1+2+3+4} \times 1000 = 300$

Number of employees in Backward communities Development department = $\frac{4}{1+2+3+4} \times 1000 = 400$

The number of INDIAN Food Lover and Chinese Food Lover in the different departments is tabulated below.

Department	Indian Food Lover	Chinese Food Lover
AYUSH	$(100 - 60) = 40$	$(100 \times 0.6) = 60$
Consumer Affairs	$(200 \times 0.25) = 50$	$(200 - 50) = 150$
Farmer Welfare	$450 - (40 + 50 + 120) = 240$	$550 - (60 + 150 + 280) = 60$
Backward communities Development	$(400 - 280) = 120$	$(400 \times 0.7) = 280$
Total	$(1000 \times 0.45) = 450$	$(1000 - 450) = 550$

Table are calculated as per given information like

Number of Chinese Food Lover in AYUSH department = $0.6 \times$ number of employees in AYUSH department = $(0.6 \times 100) = 60$

Number of Indian Food Lover in AYUSH department = $(100 - 60) = 40$, and so on

Explanations:

1. Following common explanation we get :

The number of female employees who are Indian Food Lover in the Consumer Affairs department

$$= 50 \times \frac{10}{100} = 5$$

Number of male employees who are Indian Food Lover in the Consumer Affairs department = $(50 - 5) = 45$

Hence, option (D) is correct.

2. Following common explanation we get :

The highest number of Chinese Food Lover is in Backward communities Development Department.

The percentage of Indian Food Lover in Backward communities Development department

$$= \frac{120}{450} \times 100 = 26.7\%$$

Hence, option (A) is correct.

3. Following common explanation we get :

According to the question,

$$\text{Number of employees of AYUSH department who has converted into Chinese Food Lover} = \frac{40 \times 5}{100} = 2$$

Number of employees of Farmer Welfare Department who has converted into Chinese Food Lover

$$= \frac{240 \times 20}{100} = 48$$

Number of employees of Backward communities Development Department who has converted into Indian

$$\text{Food Lover} = \frac{280 \times 20}{100} = 56$$

Number of employees of Consumer Affairs Department who has converted into Indian Food Lover

$$= \frac{150 \times 20}{100} = 30$$

Number of Indian Food Lover employees = $450 - (2 + 48) + (56 + 30) = 486$

Number of Chinese Food Lover employees = $550 - (56 + 30) + (2 + 48) = 514$

$$\text{Reqd. \%} = \frac{486}{514} \times 100 = 94.55\% = 95\% \text{ (approx.)}$$

Hence, option (D) is correct.

4. Following common explanation we get :

Number of Indian Food Lover employees of AYUSH department and Backward communities Development department combined together = $(40 + 120) = 160$

Number of Chinese Food Lover employees of Consumer Affairs department and Farmer Welfare department combined together = $(150 + 60) = 210$

Required ratio = $160 : 210 = 16 : 21$

Hence, option (B) is correct.

5. Following common explanation we get :

Number of female Chinese Food Lover employees in Farmer Welfare department

$$= \frac{60 \times 5}{100} = 3$$

Number of male Chinese Food Lover employees in Farmer Welfare department = $(60 - 3) = 57$

Number of female Chinese Food Lover employees in AYUSH department = $\frac{60 \times 10}{100} = 6$

Number of male Chinese Food Lover employees in AYUSH department = $(60 - 6) = 54$

Number of female Chinese Food Lover employees in Backward communities Development department

$$= \frac{280 \times 15}{100} = 42$$

Number of male Chinese Food Lover employees in Backward communities Development department = $(280 - 42) = 238$

Number of female Chinese Food Lover employees in Consumer Affairs department

$$= \frac{150 \times 20}{100} = 30$$

Number of male Chinese Food Lover employees in Consumer Affairs department = $(150 - 30) = 120$

Number of male Chinese Food Lover employees = $(57 + 54 + 238 + 120) = 469$

The total Indian Food Lover employees = 450

Required percentage = $\frac{469}{450} \times 100 = 104\%$ (approx.)

Hence, option (E) is correct.



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