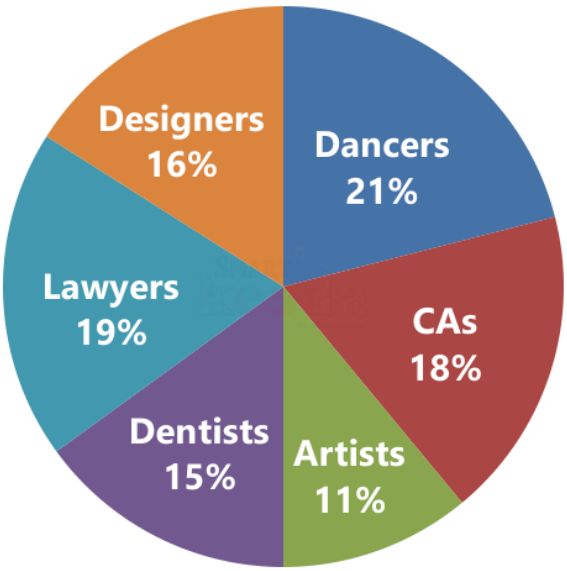
Date Interpretation Mixed Chart Questions Quiz for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains, IBPS Clerk Mains and IBPS RRB Exams.

Data Interpretation Mixed Chart Quiz 14

Direction: Study the following pie and table chart carefully and answer the questions based on it.

A survey conducted on 10500 people to find out various professionals in the town as shown in the pie chart and percentage of Female professionals among them as shown in the table chart below:



Percentage of Female **Professionals**

Dancers	–	20%
CAs	–	60%
Artists	–	40%
Dentists	–	80%
Lawyers	–	40%
Designers	–	35%

1. What is the respective ratio of the male CAs and Designers to the same female professionals in the town?

A. 41 : 44 B. 55 : 53 C. 31 : 35 D. 44 : 35 E. None of these

2. The total number of Lawyers in the town is approximately, what per cent of the total number of Dancers in the town?

A. 95% B. 98% C. 90% D. 85% E. 81%

3. What is the difference between the total number of male and female professionals in the town?

A. 1284 B. 1134 C. 1054 D. 1164 E. None of these

4. Female Dancers are what per cent of the female Dentists in the town?

A. 42% B. 28% C. 15% D. 35% E. None of these

5. If the percentage of female dancers is further increased by 50% and the percentage of dentists is decreased by 10%, what is the current ratio between the female dancers to the male dentists?

A. 11 : 5 B. 3 : 2 C. 6 : 1 D. 2 : 3 E. None of these

Correct Answers:

1	2	3	4	5
E	C	B	D	B

Explanations:

1. As per the given data, we get

In the CAs category, there are 60% females therefore, 40% must be males of the total percentage of CAs which is 18%.

Similarly, In the Designers category, there are 35% females therefore, 65% must be males of the total percentage of designers which is 16%.

$$\therefore \text{Reqd. ratio} = \frac{40\% \text{ of } 18\% \text{ of total} + 65\% \text{ of } 16\% \text{ of total}}{60\% \text{ of } 18\% \text{ of total} + 35\% \text{ of } 16\% \text{ of total}}$$

$$= \frac{40 \times 18 + 65 \times 16}{60 \times 18 + 35 \times 16} = \frac{720 + 1040}{1080 + 560}$$

$$= \frac{1760}{1640} = 44 : 41$$

Hence, option E is correct.

2. The total number of lawyers in the town = 19%

And, the total number of Dancers in the town = 21%

$\therefore$ Reqd. % = $\frac{19}{21} \times 100 = 90.47 \approx 90\%$

Hence, option C is correct.

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3. As per the given data, we get

In the Dancers category, there are 20% females therefore, 80% must be males and hence the difference between them would be = (80 – 20)% of total dancers = 60% of 21% of total

Similarly,

In the CAs category, there are 60% females therefore, 40% must be males and hence the difference between them would be = (40 – 60)% of total CAs = – 20% of 18% of total

In the Artists category, there are 40% females therefore, 60% must be males and hence the difference between them would be = (60 – 40)% of total artists = 20% of 11% of total

In the Dentists category, there are 80% females therefore, 20% must be males and hence the difference between them would be = (20 – 80)% of total dentists = – 60% of 15% of total

In the Lawyers category, there are 40% females therefore, 60% must be males and hence the difference between them would be = (60 – 40)% of total lawyers = 20% of 19% of total

In the Designers category, there are 35% females therefore, 65% must be males and hence the difference between them would be = (65 – 35)% of total dancers = 30% of 16% of total

$\therefore$ The reqd. difference = (60% of 21% – 20% of 18% + 20% + 11% – 60% of 15% + 20% of 19% + 30% of 16%) of total

$= \frac{10500}{10000} (1260 - 360 + 220 - 900 + 380 + 480)$

$= \frac{105}{100} \times 1080 = 1134$

Hence, option B is correct.

4. Total number of female dancers = 20% of 21% of total

Total number of female dentists = 80% of 15% of total

$$\text{Reqd. \%} = \frac{\text{20\% of 21\% of total}}{\text{80\% of 15\% of total}} \times 100$$

$$= \frac{7}{20} \times 100 = 35\%$$

Hence, option D is correct.

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5. As per the question,

Total percentage of female dancers is increased by 50% = 150% of 20 = 30%

Total percentage of female dentists is decreased by 10% = 90% of 80 = 72%

Now,

The total number of female dancers = 30% of 21% of total

And the total number of male dentists = (100 – 72)% of 15% of total

$$\text{Reqd. ratio} = \frac{\text{30\% of 21\% of total}}{\text{28\% of 15\% of total}} = 3 : 2$$

Hence, option B is correct.