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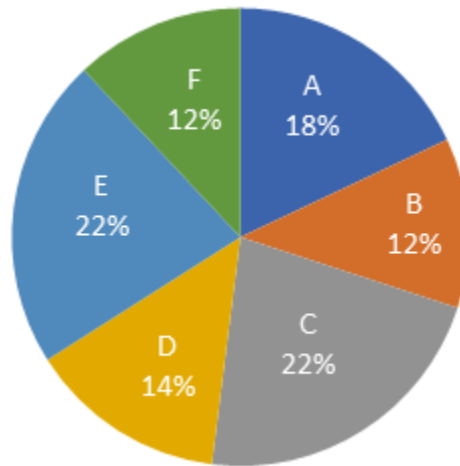- ☑ **Unmatched Explanations**

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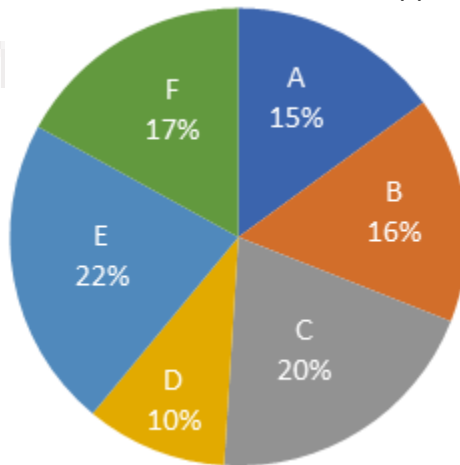
DI Mixed Chart Quiz 43

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

In 2017, the total number of SBI PO applicants in six different states, A, B. C. D, E, and F was 7.4 lakhs and the total number of SBI Clerk applicants in six different states A, B, C, D, E, and F was 8.2 lakhs.

Statewise distribution of SBI PO applicants

Statewise distribution of SBI PO applicants

M : F Ratio (M = Male, F = Female)

States	SBI PO Applicants		SBI Clerk applicants	
	M :	F	M :	F
A	4	5	8	7
B	7	5	1	1
C	6	5	3	2
D	3	4	3	2
E	8	3	5	6
F	5	3	20	21

1. What is the ratio between the total number of male applicants for SBI PO in 2017 from the given six states and the total number of female applicants for SBI PO in 2017 from the given six states?

A. 119 : 81   B. 113 : 87   C. 229 : 171   D. 19 : 17   E. None of these

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2. The total number of male applicants for SBI PO in 2017 from the given six states together is approximately what percent of the total number of male applicants for SBI Clerk in 2017 from the given six states together?

A. 79.5%   B. 73.5%   C. 97.5%   D. 69.5%   E. 87.5%

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3. In 2018, it is expected that the total number of SBI PO applicants will increase by 10% over the previous year and the total number of SBI Clerk applicant will increase by 25% over the previous year. If expectations come true then by what number the total female applicants of PO and Clerk will increase over the previous year? (If we consider only the given six states and the ratio of male and female remains same when the applicants increase in 2018)

A. 1.2999 lakhs   B. 1.6245 lakhs   C. 0.9827 lakhs   D. 1.1002 lakhs   E. None of these

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4. Find the difference between the total number of male applicants for the examination SBI PO 2017 and SBI Clerk 2017 together from the states A, B, and C together and that from the states D, E, and F together?

A. 0.881 lakhs   B. 0.132 lakhs   C. 0.119 lakhs   D. 0.612 lakhs   E. None of these

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5. In 2017, SBI PO female applicants from the state B is what percent of the SBI Clerk male applicant from the state F? (rounded off to nearest integer)

A. 44.41%   B. 64.98%   C. 59.21%   D. 54.41%   E. 49.82%

6. In 2017, Female applicants is approximately what percentage of total number of applicants? (if we take SBI PO and SBI Clerk applicants together)

A. 45.68%   B. 50.21%   C. 40.12%   D. 55.12%   E. 60.98%

Correct Answers:

1	2	3	4	5	6
B	C	A	C	D	A

Explanations:

1.

States	Number of applicants for SBI PO	Number of male applicants for SBI PO	Number of female applicants for SBI PO
A	18% of 7.4 lakhs = 1.332 lakhs	4/9 × 1.332 = 0.592 lakhs	1.332 − 0.592 = 0.74 lakhs
B	12% of 7.4 lakhs = 0.888 lakhs	7/12 × 0.888 = 0.518 lakhs	0.888 − 0.518 = 0.37 lakhs
C	22% of 7.4 lakhs = 1.628 lakhs	6/11 × 1.628 = 0.888 lakhs	1.628 − 0.888 = 0.74 lakhs
D	14% of 7.4 lakhs = 1.036 lakhs	3/7 × 1.036 = 0.444 lakhs	1.036 − 0.444 = 0.592 lakhs
E	22% of 7.4 lakhs = 1.628 lakhs	8/11 × 1.628 = 1.184 lakhs	1.628 − 1.184 = 0.444 lakhs
F	12% of 7.4 lakhs = 0.888 lakhs	5/8 × 0.888 = 0.555 lakhs	0.888 − 0.555 = 0.333 lakhs
Total		Total = 4.181 lakhs	Total = 3.219 lakhs

The required ratio = 4.181 : 3.219 = 113 : 87
Hence, option B is correct.

2. The total number of male applicants for SBI PO in 2017 from the given six states together = 4.181 lakhs

States	Number of applicants for SBI Clerk	Number of male applicants for SBI Clerk
A	15% of 8.2 lakhs = 1.23 lakhs	8/15 × 1.23 = 0.656 lakhs
B	16% of 8.2 lakhs = 1.312 lakhs	1/2 × 1.312 = 0.656 lakhs
C	20% of 8.2 lakhs = 1.64 lakhs	3/5 × 1.64 = 0.984 lakhs
D	10% of 8.2 lakhs = 0.82 lakhs	3/5 × 0.82 = 0.492 lakhs
E	22% of 8.2 lakhs = 1.804 lakhs	5/11 × 1.804 = 0.82 lakhs
F	17% of 8.2 lakhs = 1.394 lakhs	20/41 × 1.394 = 0.68 lakhs
Total		Total = 4.288 lakhs

The total number of male applicants for SBI Clerk in 2017 from the given six states together = 4.288 lakhs

The reqd. % = $\dfrac{4.181 \times 100}{4.288}$ = approximately 97.5%

Hence, option C is correct.

3. If the total number students increase by 10% then even the total number of female students will increase by 10%

The total number of SBI PO female applicants in 2017 = 3.219 lakhs
In 2018, The total number of female applicants = 110% of 3.219 = 3.5409 lakhs
The total number of female SBI Clerk applicants in 2017 = 8.2 − 4.288 = 3.912 lakhs
In 2018, the total number of female applicants = 125% of 3.912 lakhs = 4.89 lakhs
The required number = (3.5409 + 4.89) − (3.219 + 3.912) = 8.4309 − 7.131 = 1.2999 lakhs
Hence, option A is correct.

4. The total number of male applicants for the examination SBI PO 2017 from the states A, B, C together = 0.592 + 0.518 + 0.888 = 1.998 lakhs

The total number of male applicants for the examination SBI Clerk 2017 from the states A, B, C together = 0.656 + 0.656 + 0.984 = 2.296 lakhs

the total number of male applicants for the examination SBI PO 2017 and SBI Clerk 2017 together from the states A, B, and C together = 1.998 + 2.296 = 4.294 lakhs

The total number of male applicants for the examination SBI PO 2017 from the states D, E, F together = 0.444 + 1.184 + 0.555 = 2.183 lakhs

The total number of male applicants for the examination SBI Clerk 2017 from the states D, E, F together = 0.492 + 0.82 + 0.68 = 1.992 lakhs

the total number of male applicants for the examination SBI PO 2017 and SBI Clerk 2017 together from the states D, E, and F together = 2.183 + 1.992 = 4.175 lakhs

The required difference = 4.294 – 4.175 = 0.119 lakhs

Hence, option C is correct.

5. SBI PO Female applicants from the state B = 0.37 lakhs

SBI Clerk male applicants from the state F = 0.68 LAKHS

Reqd. % = $\dfrac{0.37 \times 100}{0.68}$ = 54.41% approximately

Hence, option D is correct.

6. In 2017, the total number of applicants = 7.4 + 8.2 = 15.6 lakhs

The total number of female applicants = 3.214 + 3.912 = 7.126

The reqd. % = $\dfrac{7.126 \times 100}{15.6}$ = 45.68% approximately

Hence, option A is correct.