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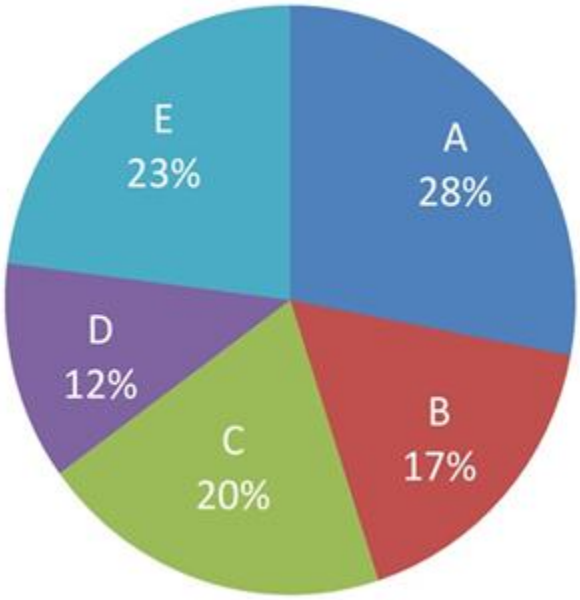
Date Interpretation Mixed Chart Questions Quiz for SBI Clerk Pre and IBPS Clerk Pre Exams.

DI Mixed Chart Quiz 50

Direction: Study the following pie and table chart carefully and answers the question carefully:

No. of students in the class = 1400



Ratio of Male to Female of students in classes

Class	Male	Female
A	3	4
B	8	9
C	3	1
D	1	2
E	9	5

1. Number of male students in class B is approximately what percent of female students in class A.

A. 25% B. 33% C. 50% D. 60% E. None of these

2. What is ratio between the female students of class C and D?

A. 1 : 2 B. 3 : 2 C. 4 : 5 D. 5 : 7 E. None of these

3. Find the ratio between the male students in class E and the total students of class E.

A. 14 : 9 B. 15 : 4 C. 9 : 14 D. 4 : 15 E. None of these

4. What is the average of the students of the class B, C and E?

A. 250 B. 260 C. 270 D. 290 E. None of these

5. What is the difference between the male and female students in class B?

A. 10 B. 20 C. 15 D. 14 E. None of these

Correct Answers:

1	2	3	4	5
C	E	C	E	D

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Explanations:

1. Number of male students in class B

$= 17\% \text{ of } 1400 \times \frac{8}{17} = 112$

Number of female students in class A $= 28\% \text{ of } 1400 \times \frac{4}{7} = 224$

$\therefore$ Reqd.% $= \frac{112}{224} \times 100 = 50\%$

Hence, option C is correct.

2. Total number of students in class C = 20% of 1400 = 280

$\therefore$ Total number of female students in class C $= \frac{1}{4} \times 280 = 70$

Total number of students in class D = 12 of 1400 = 168

$\therefore$ Total number of female students in class D $= \frac{2}{3} \times 168 = 112$

Reqd. ratio = 70 : 112 = 5 : 8

Hence, option E is correct.

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3. As we know that in ratio common numbers are removed so we dont need to write them like in this question is asked the ratio between the male students in class E and the total students in class E. So students in school and class are same so we dont need to write them.

Solve it like this:

The male students in class E : The total students in class E
9/14 : 1
9 : 14

Detailed Solution:

The male students in class E : The total students in class E

$= 23\% \text{ of } 1400 \times \frac{9}{14} : 23\% \text{ of } 1400$

$= \frac{9}{14} : 1 = 9 : 14$

Hence, option C is correct.

4.

$$\text{Reqd. Average} = \frac{(1400 \times 17\% + 1400 \times 20\% + 1400 \times 23\%)}{3}$$

$$= \frac{(1400\ (\ 17\% + 20\% + 23\%)}{3}$$

$$= \frac{1400 \times 60\%}{3} = 14 \times 20 = 280$$

Hence, option E is correct.

5. Difference between the male and female students in class B

$$17\% \text{ of } 1400 \left(\frac{9}{17} - \frac{8}{17}\right)$$

$$17\% \text{ of } 1400 \times \frac{1}{17} = 14$$

Hence, option D is correct.

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