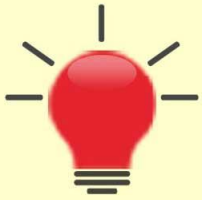

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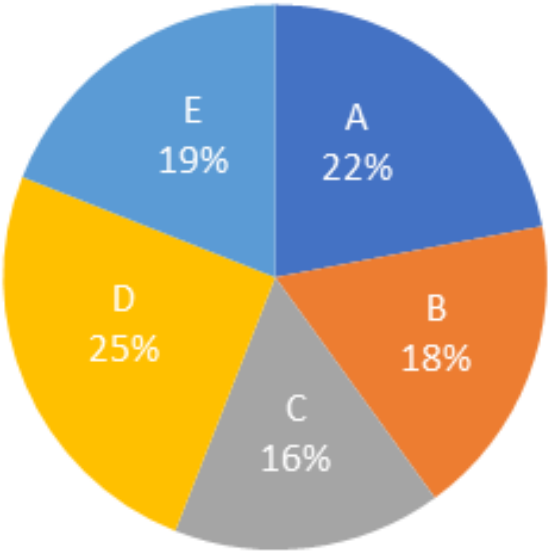
Date Interpretation Pie Chart Questions for SBI Clerk Pre and IBPS Clerk Pre Exams.

DI Pie Chart Quiz 43

Direction : Study the following pie charts carefully and answer the questions given beside.

Pie chart shows the percent of students in five different classes in 2016.

Total Students in all the classes together = 1000



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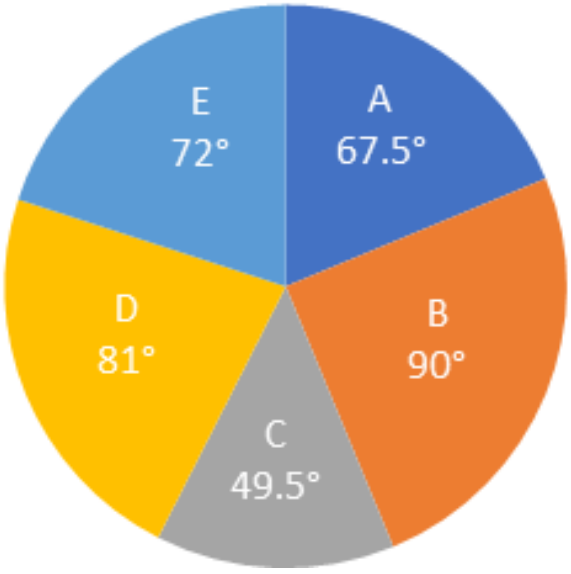
Second pie chart shows the average fee per student of five different classes in 2016.

Total average fee per student of five classes together = Rs.800



Questions :

1. If in 2017, the average fee per student as well as the number of students is increased by 20% and 10% respectively from 2016 in class A, then what is the total revenue generated from class A in the year 2017?

A. Rs. 43560 B. Rs. 33000 C. Rs. 36300 D. Rs. 39600 E. None of these

2. Total revenue generated from class C in 2016 is approximately what percent of the total revenue generated from class E in 2016?

A. 48% B. 58% C. 68% D. 64% E. None of these

3. What is the ratio of the total revenue generated from class E in 2016 to the total revenue generated from class F in 2016 if number of students in class F is 20 more than the number of students in class B in 2016 and average fee per student in class F is Rs.50 more than the average fee per student in class B in 2016?

A. 19 : 20 B. 16 : 25 C. 76 : 125 D. 125 : 76 E. None of these

4. What is the approximate average fee per student of classes C, D and E together in 2016?

A. Rs. 150 B. Rs. 145 C. Rs. 155 D. Rs. 160 E. None of these

5. If in 2015, the number of students in class D was 50% more than the number of students in class D in 2016 and average fee per student of class D was 10% less than the average fee per student of class D in 2016, then what was the total revenue generated from class D in 2015?

A. Rs. 45000 B. Rs. 40500 C. Rs. 67500 D. Rs. 60750 E. None of these

Correct Answers:

1	2	3	4	5
A	B	C	C	D

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Answers :

1. Number of students in class A in 2016 = 22% of 1000 = 220

Average fee per student in class A in 2016= $800 \times \frac{67.5}{360}$ = Rs. 150

Number of students in class A in 2017 = 110% of 220 = 242

Average fee per student in class A in 2017 = 120% of 150 = Rs.180

Total revenue generated from class A in the year 2017 = Number of students × Average fee per students = 242 × 180 = Rs.43560

Hence, option A is correct.

2. Total revenue generated from class C in 2016 = Number of students × Average fee per students

$\Rightarrow$ (16% of 1000) $\times \frac{800 \times 49.5}{360}$ = Rs.(160 × 110)

Total revenue generated from class E in 2016 = Number of students × Average fee per students

$\Rightarrow$ (19% of 1000) $\times \frac{800 \times 72}{360}$ = Rs.(190 × 160)

Reqd. % = $\frac{160 \times 110}{190 \times 160} \times 100 = 57.89 \approx 58\%$

Hence, option B is correct.

3. Total revenue generated from class E in 2016 = Number of students × Average fee per students

$\Rightarrow$ (19% of 1000) $\times \frac{800 \times 72}{360}$ = Rs.(190 × 160)

Number of students in class F = (18% of 1000) + 20 = 180 + 20 = 200

Average fee per student in class F = $800 \times \frac{90}{360}$ + 50 = 200 + 50 = Rs.250

Total revenue generated from class F = Rs.(200 × 250)

Required ratio = (190 × 160) : (200 × 250) = 76 : 125

Hence, option C is correct.

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4.

$$\text{Average fee per student} = \frac{\text{Total fee}}{\text{Total students}}$$

Total fee of class C = (16% of 1000) × $[800 \times \frac{49.5}{360}]$

= 160 × 110 = Rs.17600

Total fee of class D = (25% of 1000) × $[800 \times \frac{81}{360}]$

= 250 × 180 = Rs.45000

Total fee of class E = (19% of 1000) × $[800 \times \frac{72}{360}]$

= 190 × 160 = Rs.30400

Total fee of classes C, D and E together = Rs. (17600 + 45000 + 30400) = Rs. 93000

Total students in classes C, D and E together = 160 + 250 + 190 = 600

Reqd. average = Rs. $\frac{93000}{600}$ = Rs. 155

Hence, option C is correct.

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5. Number of students in class D in 2015 = 150% of 25% of 1000 = 375

Average fee per student of class D in 2015 = 90% of $[800 \times \frac{81}{360}]$ = Rs.162

Total revenue generated from class D in 2015 = 375 × 162 = Rs.60750

Hence, option D is correct.

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