

## IBPS RRB PO Mains Quantitative Aptitude 2020 Memory Based

**Q1.** Total number of Macbook manufactured by A & Laptops manufactured by B together are what percent more than total number of Macbook manufactured by D? Given below data shows total number of computers (Laptops, Macbook & Desktop) manufactured by four different companies. Read the data carefully and answer the questions.

| Companies | Total computers manufactured | % Of Laptops manufactured | % Of Macbook manufactured |
|-----------|------------------------------|---------------------------|---------------------------|
| A         | 800                          | 20%                       | 40%                       |
| B         | 960                          | 25%                       | 45%                       |
| C         | 1020                         | 30%                       | 40%                       |
| D         | 840                          | 25%                       | 50%                       |

- (a)  $30\frac{1}{3}\%$
- (b) 25%
- (c) 30%
- (d)  $33\frac{1}{3}\%$
- (e) 40%

**Ans.(d)**

**Q2.** Find the ratio of total number of Desktop manufactured by C & D together to total number of Laptops manufactured by A & B together? Given below data shows total number of computers (Laptops, Macbook & Desktop) manufactured by four different companies. Read the data carefully and answer the questions.

| Companies | Total computers manufactured | % Of Laptops manufactured | % Of Macbook manufactured |
|-----------|------------------------------|---------------------------|---------------------------|
| A         | 800                          | 20%                       | 40%                       |
| B         | 960                          | 25%                       | 45%                       |
| C         | 1020                         | 30%                       | 40%                       |
| D         | 840                          | 25%                       | 50%                       |

- (a) 127 : 100
- (b) 139 : 100
- (c) 109 : 100
- (d) 119 : 100
- (e) 129 : 100

**Ans.(e)**

**Q3.** Average of Macbook manufactured by B, C & E is 400 and total computers manufactured by E are 1040. If ratio of Macbook to Desktop manufactured by E is 9 : 5, then find total number of Laptops



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manufactured by E? Given below data shows total number of computers (Laptops, Macbook & Desktop) manufactured by four different companies. Read the data carefully and answer the questions.

| Companies | Total computers manufactured | % Of Laptops manufactured | % Of Macbook manufactured |
|-----------|------------------------------|---------------------------|---------------------------|
| A         | 800                          | 20%                       | 40%                       |
| B         | 960                          | 25%                       | 45%                       |
| C         | 1020                         | 30%                       | 40%                       |
| D         | 840                          | 25%                       | 50%                       |

- (a) 480
- (b) 440
- (c) 420
- (d) 360
- (e) 520

**Ans.(a)**

**Q4.** Total number of Desktop manufactured by B are what percent more than total number of Desktop manufactured by D? Given below data shows total number of computers (Laptops, Macbook & Desktop) manufactured by four different companies. Read the data carefully and answer the questions.

| Companies | Total computers manufactured | % Of Laptops manufactured | % Of Macbook manufactured |
|-----------|------------------------------|---------------------------|---------------------------|
| A         | 800                          | 20%                       | 40%                       |
| B         | 960                          | 25%                       | 45%                       |
| C         | 1020                         | 30%                       | 40%                       |
| D         | 840                          | 25%                       | 50%                       |

- (a)  $40\frac{1}{7}\%$
- (b)  $42\frac{1}{7}\%$
- (c)  $32\frac{1}{7}\%$
- (d)  $37\frac{1}{7}\%$
- (e)  $35\frac{1}{7}\%$

**Ans.(d)**

**Q5.** Find average number of Laptops manufactured by B, C & D? Given below data shows total number of computers (Laptops, Macbook & Desktop) manufactured by four different companies. Read the data carefully and answer the questions.

| Companies | Total computers manufactured | % Of Laptops manufactured | % Of Macbook manufactured |
|-----------|------------------------------|---------------------------|---------------------------|
| A         | 800                          | 20%                       | 40%                       |
| B         | 960                          | 25%                       | 45%                       |
| C         | 1020                         | 30%                       | 40%                       |
| D         | 840                          | 25%                       | 50%                       |

- (a) 232  
(b) 242  
(c) 252  
(d) 272  
(e) 264

**Ans.(c)**

**Q6.** The length of a rectangle is  $14\frac{2}{7}\%$  more than that of breadth of Rectangle. find the area of rectangle?  
I. Perimeter of rectangle is equal to perimeter of an Equilateral Triangle whose area is  $25\sqrt{3}$  cm<sup>2</sup>.  
II. length of rectangle is 2 times the side of a Square whose perimeter is 16 cm. The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

- (a) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.  
(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.  
(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.  
(d) Either statement (I) or statement (II) by itself is sufficient to answer the question.  
(e) Statements (I) and (II) taken together are not sufficient to answer the question.

**Ans.(d)**

**Q7.** What is the maximum marks in an exam?

I. Veer scored 25% more than the minimum passing marks but he scored only 50% marks in the exam.  
II. Aayush scored only 60 marks in the exam which is 50% more than the passing marks.  
The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

- (a) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.  
(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.  
(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.  
(d) Either statement (I) or statement (II) by itself is sufficient to answer the question.  
(e) Statements (I) and (II) taken together are not sufficient to answer the question.

**Ans.(c)**

**Q8.** A seller marked up the price of an article 50% above cost price and give two successive discounts. Find the aggregate percentage of discount.

I. Seller make the Aggregate profit of 14.75%

II. M.R.P. of the Article is Rs. 750 and it sold in Rs. 73.75 more than the cost price.

The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

(a) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(d) Either statement (I) or statement (II) by itself is sufficient to answer the question.

(e) Statements (I) and (II) taken together are not sufficient to answer the question.

**Ans.(d)**

What is the value of  $(2^x + y^2)$

I.  $x + y = 7$

**Q9.** II. the difference between x and y is 1.

The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

(a) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(d) Either statement (I) or statement (II) by itself is sufficient to answer the question.

(e) Statements (I) and (II) taken together are not sufficient to answer the question.

**Ans.(e)**

**Q10.** What will be profit share of Ankit?

I. Ankit Invest Rs. 1600 for 8 months and Satish joined him after three months from start of the business months with capital of Rs. 1200.

II. Satish got Rs. 630 as profit share.

The following questions are accompanied by two statements (I) and (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

(a) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

(b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.

(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(d) Either statement (I) or statement (II) by itself is sufficient to answer the question.

(e) Statements (I) and (II) taken together are not sufficient to answer the question.

**Ans.(e)**

**Q11.** Equal amounts of Rs. \_\_\_\_\_ are invested in two schemes A and B for 6 years and 8 years respectively. Scheme A offers interest at the rate of 12% per annum and scheme B offers interest at the rate of 8% p.a. The difference between the interests earned (simple interest) is Rs.1280.?

- (a) 16,000
- (b) 16,500
- (c) 17,000
- (d) 18,000
- (e) 20,500

**Ans.(a)**

**Q12.** A boat covers a distance of  $11\frac{1}{4}$  km in upstream in 11 minutes. The ratio between speed of current to downstream speed is 1 : 7 and boat covers \_\_\_\_\_ km distance in downstream in 52 min?

- (a) 16.5
- (b) 15.6
- (c) 18.2
- (d) 17.2
- (e) 14.2

**Ans.(c)**

**Q13.** Marked price of an article is 25% more than its selling price and the profit earned on selling the article is also 25%. The difference between, the profit and the difference between cost price & marked price is Rs 200, then find at what price article should be sell to make a profit of 37.5%?

- (a) Rs 500
- (b) Rs 880
- (c) Rs 600
- (d) Rs 700
- (e) Rs 800

**Ans.(b)**

**Q14.** The investment of A is 48% less than that of B. After four months, A increases his investment by  $\frac{2}{13}$ th of the initial investment, B withdraws 50% of the initial investment and C makes an investment. If at the end of the year profit share of C is twice of the difference between profit share of A and B, then find investment of C is what percent of initial investment of B?

- (a) 24.5%
- (b) 21%
- (c) 42%
- (d) 35%
- (e) 28%

**Ans.(e)**

**Q15.** A bag contains 18 number of balls out of which \_\_\_\_ are plastic balls and rest are leather balls. If the two balls are drawn from the bag at random, then the probability of getting a plastic and leather ball is \_\_\_\_.

I. 10,  $\frac{80}{153}$

II. 8,  $\frac{40}{153}$

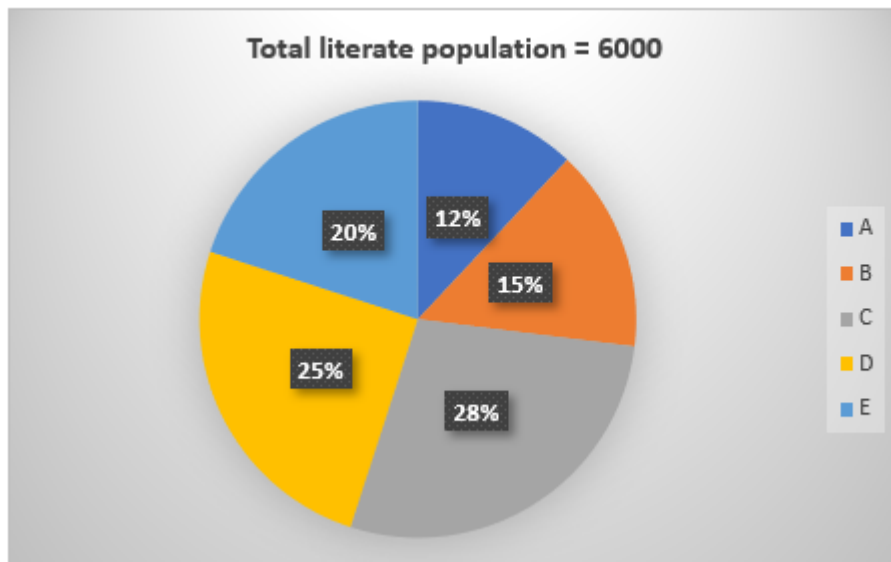
III. 6,  $\frac{8}{17}$

- (a) All I, II and III
- (b) Only I and III
- (c) Only I

- (d) Only II  
(e) Only I and II

**Ans.(b)**

**Directions (16-20):** Given below pie chart shows percentage distribution of total literate people in five different villages and table shows percentage of literacy rate in these five villages out of total population and number of people who have post graduate degree. Read the data carefully and answer the questions.



| Villages | literacy rate (in %) | Number of people who have post graduate degree |
|----------|----------------------|------------------------------------------------|
| A        | 60%                  | 440                                            |
| B        | 75%                  | 500                                            |
| C        | 80%                  | 880                                            |
| D        | 60%                  | 700                                            |
| E        | 50%                  | 360                                            |

**Note:** People who have under graduate degree in any village  
= (Total literate people – Number of people who have post graduate degree)

**Q16.** Find ratio of total people who have under graduate degree from C & D together to total illiterate people from A & E together?

- (a) 40 : 43  
(b) 40 : 41  
(c) 20 : 23  
(d) 20 : 21  
(e) 10 : 11

**Ans.(d)**

**Q17.** If total number of people who have post graduate degree from all the village together is to be distributed in the degree pie chart, then find the central angle for people who have post graduate degree from B & D together.

- (a)  $100^\circ$
- (b)  $140^\circ$
- (c)  $220^\circ$
- (d)  $150^\circ$
- (e)  $180^\circ$

**Ans.(d)**

**Q18.** Total females in C are 25% less than that of males and 80% of total females in C are literate. If 50% of total males in C who are literate have post graduate degree, then find number of females who are literate but do not have post graduate degree from C?

- (a) 120
- (b) 220
- (c) 420
- (d) 360
- (e) 320

**Ans.(e)**

**Q19.** Find average number of people who have not post graduate degree from A, D & E (consider only literate people)?

- (a) 720
- (b) 640
- (c) 520
- (d) 360
- (e) 480

**Ans.(b)**

**Q20.** Total illiterate people from A & C together is what percent less than total illiterate people from E?

- (a) 25%
- (b) 15%
- (c) 20%
- (d) 30%
- (e) 35%

**Ans.(a)**

**Q21.** 'N' men can do a piece of work in 21 days working 8 hours each day. The number of days taken by N men is 70% of number of days taken by (N - 1) men, working 6 hours a day. Find in how many days (N + 3) men working ten hours in a day can complete the same work.

- (a) 14 days
- (b) 13 days
- (c) 15 days
- (d) 16 days
- (e) 17 days

**Ans.(a)**

**Q22.** Train A running at speed of 64 km/hr. crosses a pole in 27 second and train B having crosses a man in 36 second. Ratio of speed of train A to B is 8 : 7 and both train running in opposite direction to each other, cross each other in \_\_\_\_ sec?

- (a) 28.2 sec
- (b) 36.2 sec
- (c) 31.2 sec
- (d) 38.2sec
- (e) 39.2 sec

**Ans.(c)**

**Q23.** There are \_\_\_\_ students in a class and Average weight of class is 20 kg. When two new students include in the class average weight becomes 22 kg. After those four students left the class, whose weight half of the weight of two person included previously, then average weight of class becomes 25 kg.

- (a) 18
- (b) 20
- (c) 22
- (d) 16
- (e) 14

**Ans.(a)**

**Q24.** Ratio of age of man to his elder son is 20 : 9 and ratio of age of wife and her younger son is 3 : 1. If difference between age of elder and younger son is 6 years (Man has only two son and no daughter) and average age of family is 26.5 year, then find the age of wife.

- (a) 24
- (b) 36
- (c) 40
- (d) 38
- (e) 28

**Ans.(b)**

**Q25.** A mixture contains liquids P and Q in which Q is 125% more than P. If 52 liters of the mixture is taken out and replaced with another liquid R, concentration of liquid P in the final mixture becomes 20%. What is the quantity of liquid Q in the final mixture?

- (a) 72.68 liters
- (b) 60.68 liters
- (c) 54.68 liters
- (d) 48.86 liters
- (e) 66.86 liters

**Ans.(e)**

**Q26.** 12, 7, 8.5, 14.75, ?, 83

What will come in the place of question (?) mark in the following number series:

- (a) 30
- (b) 24
- (c) 32
- (d) 36
- (e) 48

**Ans.(c)**

**Q27.** 12, 78, 395, 1584, 4755, ?

What will come in the place of question (?) mark in the following number series:

- (a) 9512
- (b) 9516
- (c) 9518
- (d) 9520
- (e) 9580

**Ans.(a)**

**Q28.** 26, 53, 214, 1287, 10300, ?

What will come in the place of question (?) mark in the following number series:

- (a) 95000
- (b) 100005
- (c) 103000
- (d) 101005
- (e) 103005

**Ans.(e)**

**Q29.** 4187, 2857, 2129, 1787, 1663, ?

What will come in the place of question (?) mark in the following number series:

- (a) 1647
- (b) 1642
- (c) 1627
- (d) 1637
- (e) 1630

**Ans.(d)**

**Q30.** 27, 27, 54, 18, 72, ?

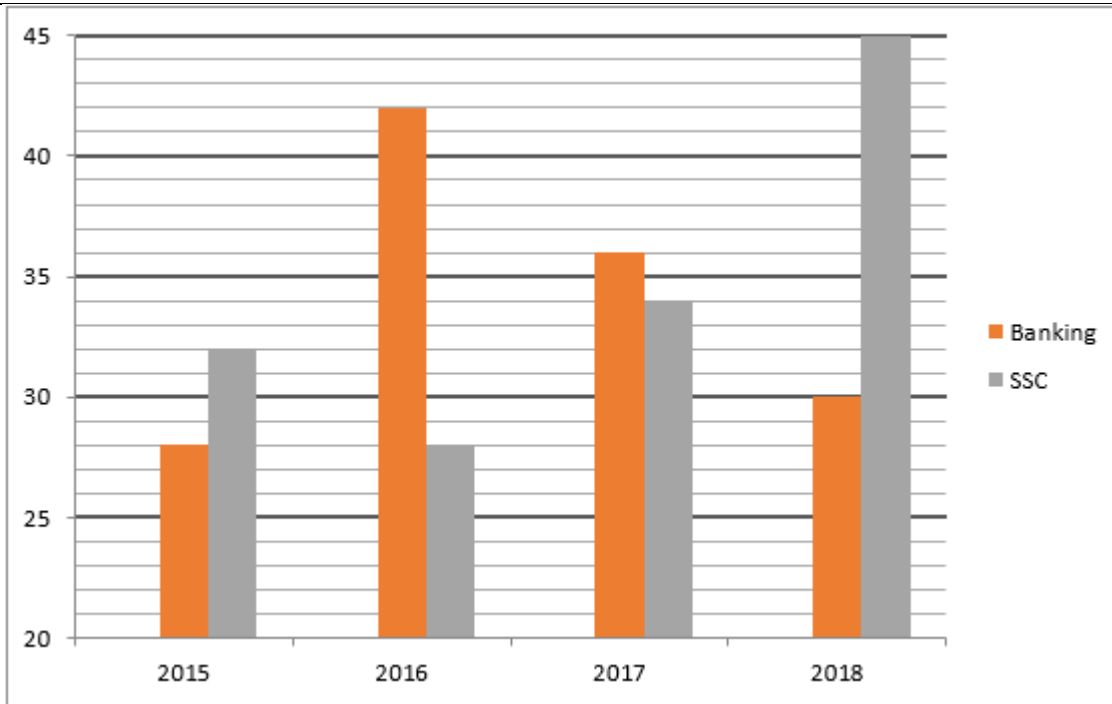
What will come in the place of question (?) mark in the following number series:

- (a) 19.6
- (b) 16.8
- (c) 18.8
- (d) 12.8
- (e) 14.4

**Ans.(e)**

**Directions (31-35):** The bar graph shows the number of students (in %) enrolled in two different courses out of three different courses in four different years of a coaching institution. Study the graph carefully to answer the following questions.

Note - Total number of Student enrolled in all three-video course in any year = Students enrolled for (SSC + Banking + Railway) video course



**Q31.** If total student in 2015 & 2017 are in ratio of 4:5 and the difference between no. of Railway students in these two years is 180 then find the difference between no. of Banking students in these two years?

- (a) 1218
- (b) 1332
- (c) 1418
- (d) 1224
- (e) 1350

**Ans.(d)**

**Q32.** If total student in 2015 is 8000 and increased at 10% annually for the following years then find in which year the no. of Railway student was third highest?

- (a) 2016
- (b) 2018
- (c) 2017
- (d) none of these
- (e) can't be determined

**Ans.(b)**

**Q33.** For how many years the no. of Railway student is more than the average of the no. of student of the rest two courses?

- (a) 0
- (b) 2
- (c) 3
- (d) 1
- (e) None of these

**Ans.(d)**

**Q34.** If the total no. of students is constant for all the years, then find in which year the difference between no. of Railway students and SSC students is second lowest?

- (a) 2015
- (b) 2016
- (c) 2017
- (d) 2018
- (e) none of these

**Ans.(c)**

**Q35.** If the ratio of Railway students in 2015,2017,2018 be 6:3:5 and difference between Banking and SSC students in 2018 is 300, then find the average no. of SSC students in 2015 and 2017 together?

- (a) 590
- (b) 640
- (c) 240
- (d) 190
- (e) 410

**Ans.(e)**

**Q36.** Find difference between total students in IT and total students in Electrical stream?

Read the data carefully and answer the questions.

In a college 'A' there is six streams i.e., Mechanical, CS, IT, Electronic, Electrical and Civil. Total number of students in IT is two times of that of total students in Civil, while ratio of total number of students in Mechanical to total students in IT is 2 : 3. The ratio of total number of students in CS to total number of students in civil is 8 : 9. Total students in Electrical is 120 more than total students in CS and total students in Electrical is 60 more than total students in electronic. Total number of students in Civil and Electronic is 400.

- (a) 64
- (b) 56
- (c) 52
- (d) 80
- (e) 84

**Ans.(d)**

**Q37.** In college 'B' there is only three streams i.e., CS, IT, Electronic. If total students in college 'B' is 720 and students in IT & Electronic is 20% and 25% more than that of total students in Mechanical & Civil stream of college 'A' respectively, then find total number of students in CS of college 'B'? Read the data carefully and answer the questions.

In a college 'A' there is six streams i.e., Mechanical, CS, IT, Electronic, Electrical and Civil. Total number of students in IT is two times of that of total students in Civil, while ratio of total number of students in Mechanical to total students in IT is 2 : 3. The ratio of total number of students in CS to total number of students in civil is 8 : 9. Total students in Electrical is 120 more than total students in CS and total students in Electrical is 60 more than total students in electronic. Total number of students in Civil and Electronic is 400.

- (a) 189
- (b) 207
- (c) 197
- (d) 191
- (e) 185

**Ans.(b)**

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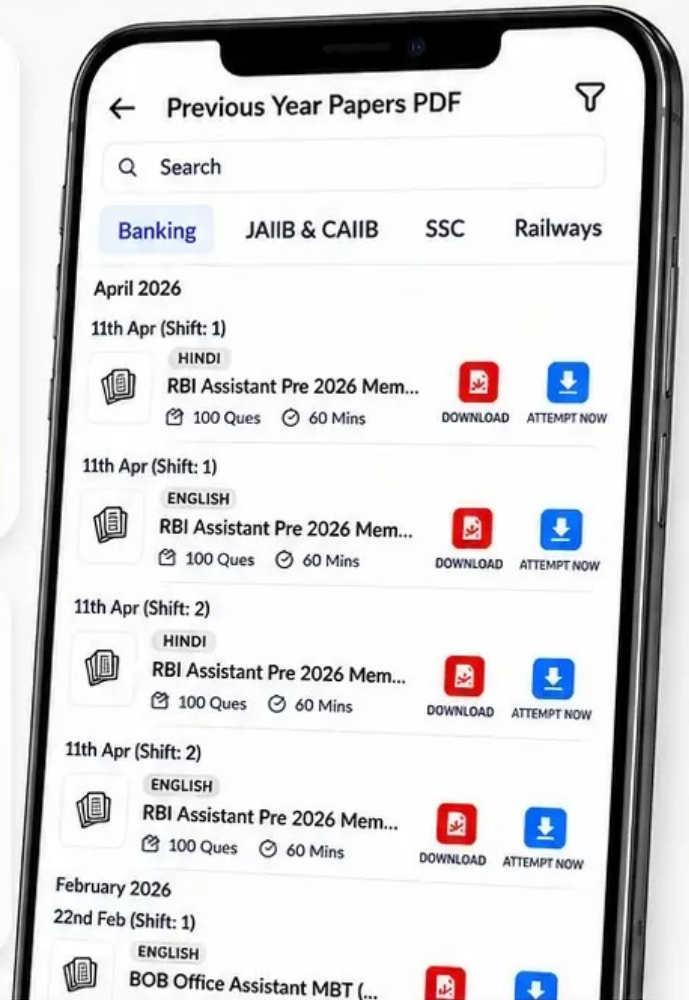
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**Q38.** Find ratio between total students in CS to total students in electronic?

Read the data carefully and answer the questions.

In a college 'A' there is six streams i.e., Mechanical, CS, IT, Electronic, Electrical and Civil. Total number of students in IT is two times of that of total students in Civil, while ratio of total number of students in Mechanical to total students in IT is 2 : 3. The ratio of total number of students in CS to total number of students in civil is 8 : 9. Total students in Electrical is 120 more than total students in CS and total students in Electrical is 60 more than total students in electronic. Total number of students in Civil and Electronic is 400.

- (a) 8 : 13
- (b) 8 : 15
- (c) 8 : 11
- (d) 8 : 9
- (e) 8 : 7

**Ans.(c)**

**Q39.** Find the average numbers of students in Mechanical, Civil & IT stream?

Read the data carefully and answer the questions.

In a college 'A' there is six streams i.e., Mechanical, CS, IT, Electronic, Electrical and Civil. Total number of students in IT is two times of that of total students in Civil, while ratio of total number of students in Mechanical to total students in IT is 2 : 3. The ratio of total number of students in CS to total number of students in civil is 8 : 9. Total students in Electrical is 120 more than total students in CS and total students in Electrical is 60 more than total students in electronic. Total number of students in Civil and Electronic is 400.

- (a) 260
- (b) 280
- (c) 240
- (d) 250
- (e) 290

**Ans.(a)**

**Q40.** Total numbers of electronic students are what percent less than total Mechanical students?

Read the data carefully and answer the questions.

In a college 'A' there is six streams i.e., Mechanical, CS, IT, Electronic, Electrical and Civil. Total number of students in IT is two times of that of total students in Civil, while ratio of total number of students in Mechanical to total students in IT is 2 : 3. The ratio of total number of students in CS to total number of students in civil is 8 : 9. Total students in Electrical is 120 more than total students in CS and total students in Electrical is 60 more than total students in electronic. Total number of students in Civil and Electronic is 400.

- (a)  $6\frac{1}{3}\%$
- (b)  $4\frac{1}{3}\%$
- (c)  $2\frac{1}{3}\%$
- (d)  $1\frac{1}{3}\%$
- (e)  $8\frac{1}{3}\%$

**Ans.(e)**