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Date Interpretation Info Chart Questions Quiz for IBPS PO Mains, SBI PO Mains and RBI Grade B Exams.

Data Interpretation Info Chart Quiz 1

Directions: Study the given information carefully to answer the questions.

The total number of students in a college having three disciplines viz. Arts, Commerce and Science is 20,000. 25% of the total number of students are from the discipline of Arts. 30% of the total number of students are from the discipline of Commerce and 45% of the total number of students are from the discipline of Science. The college has three compulsory subjects' viz. Social work, Physical training and Cookery for all the three disciplines and the students have a choice to take either one of the subjects or all the three subjects together. 25% of the total number of students from the discipline of Arts have taken Social work. 35% of the total number of students from the discipline of Arts have taken Physical Training. 30% of the total number of students from the same discipline have taken Cookery and the rest have taken all the three subjects. 40% of the total number of students from the discipline of Commerce have taken Social work, 25% have taken Physical training, 10% have taken Cookery and the rest have taken all. 15% of the total number of students from the discipline of Science have taken Social work, 45% have taken Physical Training, 5% have taken Cookery and the rest have taken all the three subjects.

1. What is the respective ratio of the total number of students from the discipline of Commerce to those of arts?

- A. 9 : 5 B. 6 : 5 C. 5 : 6 D. 5 : 9 E. None of these

2. What is the total number of students who have taken Social Work and Physical Training from all the three disciplines?

- A. 17450 B. 17250 C. 16850 D. 16250 E. None of these

3. The total number of students who have taken only Physical training as their subject from the discipline of Arts are approximately, what per cent of the total number of students taking the same subject from the discipline of Science?

- A. 48 B. 47 C. 43 D. 39 E. None of these

Correct Answers:

1	2	3
B	A	C

Explanations:

1. Total students = 20,000

Total number of Arts students = 25% = 5000

Total number of Commerce students = 30% = 6000

Total number of Science students = 45% = 9000

For Arts students

Students who took Social work = 25% of 5000 = 1250

Students who took Physical Training = 35% of 5000 = 1750

Students who took Cookery = 30% of 5000 = 1500

Students who took all the three subjects = $5000 - (1250 + 1750 + 1500) = 500$

For Commerce students

Students who took Social work = 40% of 6000 = 2400

Students who took Physical Training = 25% of 6000 = 1500

Students who took Cookery = 10% of 6000 = 600

Students who took all the three subjects = $6000 - (2400 + 1500 + 600) = 1500$

For Science students

Students who took Social work = 15% of 9000 = 1350

Students who took Physical Training = 45% of 9000 = 4050

Students who took Cookery = 5% of 9000 = 450

Students who took all the three subjects = $9000 - (1350 + 4050 + 450) = 3150$

Total number of students in Commerce = 6000

Total number of students in Arts = 5000

Ratio of number of students in commerce to that of arts

$$= \frac{6000}{5000} = 6 : 5$$

Hence, option B is correct.

2. Total students = 20,000

Total number of Arts students = 25% = 5000

Total number of Commerce students = 30% = 6000

Total number of Science students = 45% = 9000

For Arts students

Students who took Social work = 25% of 5000 = 1250

Students who took Physical Training = 35% of 5000 = 1750

Students who took Cookery = 30% of 5000 = 1500

Students who took all the three subjects = $5000 - (1250 + 1750 + 1500) = 500$

For Commerce students

Students who took Social work = 40% of 6000 = 2400

Students who took Physical Training = 25% of 6000 = 1500

Students who took Cookery = 10% of 6000 = 600

Students who took all the three subjects = $6000 - (2400 + 1500 + 600) = 1500$

For Science students

Students who took Social work = 15% of 9000 = 1350

Students who took Physical Training = 45% of 9000 = 4050

Students who took Cookery = 5% of 9000 = 450

Students who took all the three subjects = $9000 - (1350 + 4050 + 450) = 3150$

Arts students who have taken Social Work and Physical Training = $1250 + 1750 + 500 = 3500$

Commerce students who have taken Social Work and Physical Training = $2400 + 1500 + 1500 = 5400$

Science students who have taken Social Work and Physical Training = $1350 + 4050 + 3150 = 8550$

Total students who have taken Social Work and Physical Training = $3500 + 5400 + 8550 = 17450$

Hence, option A is correct.

3. Total students = 20,000

Total number of Arts students = 25% = 5000

Total number of Commerce students = 30% = 6000

Total number of Science students = 45% = 9000

For Arts students

Students who took Social work = 25% of 5000 = 1250

Students who took Physical Training = 35% of 5000 = 1750

Students who took Cookery = 30% of 5000 = 1500

Students who took all the three subjects = $5000 - (1250 + 1750 + 1500) = 500$

For Commerce students

Students who took Social work = 40% of 6000 = 2400

Students who took Physical Training = 25% of 6000 = 1500

Students who took Cookery = 10% of 6000 = 600

Students who took all the three subjects = $6000 - (2400 + 1500 + 600) = 1500$

For Science students

Students who took Social work = 15% of 9000 = 1350

Students who took Physical Training = 45% of 9000 = 4050

Students who took Cookery = 5% of 9000 = 450

Students who took all the three subjects = $9000 - (1350 + 4050 + 450) = 3150$

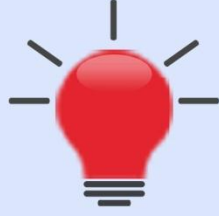
Arts students who took Physical Training = 1500

Science students who took Physical Training = 4050

Percentage of arts students to that of science students

$$= \frac{1500}{4050} \times 100 = 37\%$$

Hence, option C is correct.



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