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DI table Chart Questions for IBPS PO Pre, SBI PO Pre, IBPS Clerk Mains, SBI Clerk Mains and LIC AAO Pre Exams.

DI Table Chart No. 128

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

The following table shows the number of students in classes 8, 9 and 10 in a school. The school started in 2000 and students are admitted only in class 8. At the end of the year the students who pass the final exams get promoted to the next class while the students who fail stay in the same class and are joined by a new bunch of students, who are either promoted (class 9 and 10) or who joined the school new (class 8). All students who pass the class 10 exams pass out of the school.

$Class \rightarrow$	o	0	10
Year↓	0	9	10
2000	45	_	_
2001	50	42	-
2002	46	52	36
2003	54	46	45
2004	50	52	43

No student in class 10 failed in any of the years and no student failed in the same class more than once.

1.	How many students joined the school from 2000 to 2004?	
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A. 218 B. 221 C. 226 D. 232 E. 245

2. Approximately what percentage of the students in class 8 in 2002, passed the final exams?

A. 100 B. 90 C. 80 D. 85 E. 75

3. How many students studying in class 9 in the year 2003, failed in the final exams?

A. 4 B. 3 C. 2 D. 1 E. 5

- 4. The total number of students who failed in class 8 from 2000 to 2003 is
- A. 12 B. 14 C. 18 D. 26 E. None of these
- 5. What percentage of the students who joined the school from 2000 to 2002, passed out of the school by 2003?

```
A. 64% B. 60.44% C.65.5% D. 66.5% E. 63%
```

Correct Answers:

1	2	3	4	5
С	D	В	E	В





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Common explanations :

As it is given that a student who passes the final exams gets promoted to the next class, we can see that only 42 of the 45 students in class 8 in the year 2000, reached class 9, which means that 3 students had failed in the class that year. As the number of students in class 8 in 2001 is 50, 47 new students (50-3 failed students) joined class 8 in that year. In 2002, 36 students passed out of class 10, which means of the 42 students in class 9 in 2001, only 36 passed and 6 failed. This six students will remain in class 9 in 2002 also and as these are 52 students in class 9 in that year, 46 students were newly promoted, i.e., of the 50 students in class 8 in 2001.

Similarly we can find values for other years.

$Class \rightarrow$	0	0	10
Year↓	ŏ	9	10
2000	45	—	-
2001	47 + 3 (failed)	42	-
2002	42 + 4 (failed)	46 + 6 (failed)	36
2003	47 + 7 (failed)	39 + 7 (failed)	45
2004	45 + 5 (failed)	49 + 3 (failed)	43

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Answers:

1. Following the common explanation, we get

The number of students who joined the school = 45 + 47 + 42 + 47 + 45 = 226

Hence, option C is correct.

2. Following the common explanation, we get

Of the 46 students in class 8 in 2002, 39 got promoted to class 9 in 2003, i.e.,

$$\frac{39 \times 100}{46} = 84.8\% \approx 85\%$$

Hence, option D is correct.

Following the common explanation, we get
Of the 46 students in class 9 in 2003, only 43 got promoted to class 10, i.e., 3 students failed.
Hence, option B is correct.

- Following the common explanation, we get Pollowing the common explanation, we get The total number of students who failed in class 8 from 2000 to 2003 = 3 + 4 + 7 + 5 = 19 Hence, option E is correct.
- **5.** Following the common explanation, we get

Number of students who joined from 2000 to 2002 = (45 + 47 + 42) = 134

Number of students who passed only by 2003 = (36 + 45) = 81

Reqd. % =
$$\frac{81 \times 100}{134}$$
 = 60.44%

Hence, option B is correct.



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