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Correct Answers:

1	2	3	4	5
C	D	B	E	B



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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→	8	9	10
Year↓			
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.

3. 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.

4. Following 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 = $(36 + 45) = 81$

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

Hence, option B is correct.





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