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Date Interpretation Table Chart Questions for IBPS PO Pre, SBI PO Pre, IBPS Clerk Mains, SBI Clerk Mains, IBPS SO Pre and RRB Scale I Pre Exams.

DI Table Chart Quiz 62

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

The table chart given below shows the per cent of students in different classes of a school from 2006 to 2009. Total students in the school in 2006 is 25000 and is increased by 20% every year from the previous year.

Classes	2006	2007	2008	2009
A	5%	4%	6%	9%
B	35%	46%	37%	32%
C	29%	30%	28%	35%
D	24%	14%	23%	13%
E	7%	6%	6%	11%

1. What is the difference between the number of students in classes D and E together and the number of students in classes B and C together over the entire period?

- A. 91144 B. 46546 C. 56586 D. 56500 E. None of these

2. Total number of students in class B in 2008 is what per cent of total number of students in class A in 2006?

- A. 106.56% B. 12.656% C. 1065.6% D. 1265.6% E. None of these

3. Find the increase in number of students in class D in the year 2009 from the year 2007.

- A. 1816 B. 1400 C. 1216 D. 1416 E. None of these

4. Find the ratio of total students in classes A, C and E together in 2007 to the total students in classes B and D together in 2008.

- A. 5 : 9 B. 4 : 9 C. 5 : 8 D. 1 : 2 E. None of these

5. Find that total number of students in class A alone over the entire period is approximately what per cent of total number of students in Classes D and E together in 2009?

- A. 62% B. 82% C. 72% D. 92% E. None of these

6. If total students of school in 2011 increases by 60% from the year 2007 and total students in class C in 2011 increases by 40% from 2007, then find that students in class C in 2011 is what per cent of total students in 2011?

- A. 26.25% B. 16.25% C. 36.75% D. 46.75% E. None of these

Correct Answers:

1	2	3	4	5	6
C	C	D	A	B	A

Explanations:

1. Total students in school in 2006 = 25000

Total students in school in 2007 = 120% of 25000 = 30000

Total students in school in 2008 = 120% of 30000 = 36000

Total students in school in 2009 = 120% of 36000 = 43200

Number of students in classes D and E together over the entire period = [(24 + 7)% of 25000] + [(14 + 6)% of 30000] + [(23 + 6)% of 36000] + [(13 + 11)% of 43200] = 7750 + 6000 + 10440 + 10368 = 34558

Number of students in classes B and C together over the entire period = [(35 + 29)% of 25000] + [(46 + 30)% of 30000] + [(37 + 28)% of 36000] + [(32 + 35)% of 43200] = 16000 + 22800 + 23400 + 28994 = 91144

Required difference = 91144 – 34558 = 56586

Hence, option C is correct.

2. Total students in school in 2008 = 120% of 120% of 25000 = 36000

Total number of students in class B in 2008 = 37% of 36000 = 13320

Total number of students in class A in 2006 = 5% of 25000 = 1250

$$\text{Reqd. \%} = \frac{13320}{1250} \times 100 = 1065.6\%$$

Hence, option C is correct.

3. Total students in school in 2007 = 120% of 25000 = 30000

Total students in school in 2009 = 120% of 120% of 120% of 25000 = 43200

Number of students in class D in 2009 = 13% of 43200 = 5616

Number of students in class D in 2007 = 14% of 30000 = 4200

Change in number = 5616 – 4200 = 1416

Hence, option D is correct.

4. Total students in school in 2007 = 120% of 25000 = 30000

Total students in school in 2008 = 120% of 120% of 25000 = 36000

Total students in classes A, C and E together in 2007 = (4 + 30 + 6)% of 30000 = 12000

Total students in classes B and D together in 2008 = (37 + 23)% of 36000 = 21600

Required ratio = 12000 : 21600 = 5 : 9

Hence, option A is correct.

5. Total students in school in 2006 = 25000

Total students in school in 2007 = 120% of 25000 = 30000

Total students in school in 2008 = 120% of 30000 = 36000

Total students in school in 2009 = 120% of 36000 = 43200

Total number of students in class A alone over the entire period = (5% of 25000) + (4% of 30000) + (6% of 36000) + (9% of 43200) = 1250 + 1200 + 2160 + 3888 = 8498

Total number of students in Classes D and E together in 2009 = (13 + 11)% of 43200 = 10368

Reqd. % = $\frac{8498}{10368} \times 100 = 81.96\% \approx 82\%$

Hence, option B is correct.

6. Total students in school in 2007 = 120% of 25000 = 30000

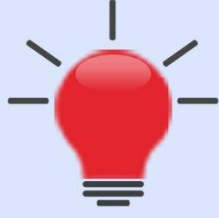
Total students of school in 2011 = 160% of 30000 = 48000

Total students in class C in 2007 = 30% of 30000 = 9000

Total students in class C in 2011 = 140% of 9000 = 12600

Reqd. % = $\frac{12600}{48000} \times 100 = 26.25\%$

Hence, option A is correct.



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