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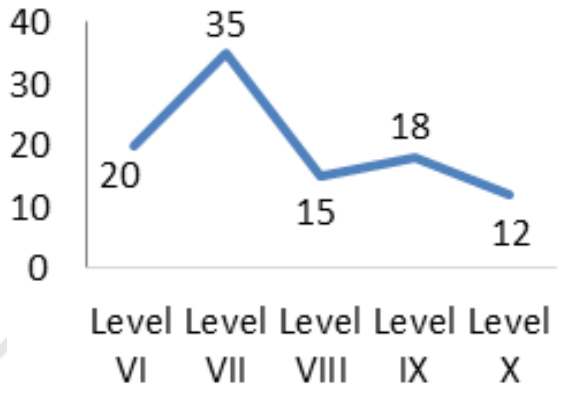
The Question Bank

DI Line Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, SBI PO Pre and IBPS PO Pre Exams.

DI Line Chart No 38

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

The following line graph shows the percentage breakup of students studying in DPS Dehradun, from level VI to X in the year 2019.



Note : The total number of students in the school is 2200.

1. The total number of students in level VI and level IX together is what percentage more than that of the total number of students in level X?

A. 125.33% B. 215.33% C. 216.67% D. 316.67% E. None of these

2. If in level VI, the ratio of boys to girls is 6 : 5 and the total number of girls in level VI is 50 less than that of the total number of girls in level VII, then find the ratio of the total number of boys in level VI to level VII.

A. 5 : 7 B. 7 : 11 C. 9 : 13 D. 6 : 13 E. 4 : 5

3. If in 2020, the total number of students in level VI and level VII is increased by 10% each and the total number of students in level VIII is decreased by 20% then what is the difference between the total number of students in level VI and VII together in 2020 to that of the total number of students in level VIII in 2020?

A,. 976 B. 1067 C. 1156 D. 1078 E. 878

4. **The total number of boys in level VIII is "x" and the total number of boys in level IX is "x + 40". If the total number of girls in level VIII and level IX together is 306, then find the value of "x".**

A. 190 B. 210 C. 174 D. 184 E. 196

5. **What is the difference between the total number of students in level VII and level VIII together to that of the total number of students in level IX and level X together?**

A. 480 B. 520 C. 440 D. 400 E. 560

Correct Answers:

1	2	3	4	5
C	D	B	A	C

Explanations :

1. The total percentage of students in level VI and level IX together = 20 + 18 = 38%

The percentage of students in level X = 12%

$\therefore$ Reqd. % = $\frac{38-12}{12} \times 100 = \frac{26}{12} \times 100$ = 217% (approx.)

Hence, option C is correct.

2. The total number of students in level VI

$= \frac{2200}{100} \times 20 = 440$

The ratio of boys to girls is 6: 5 in level VI (Given)

The total number of girls in level VI = $\frac{440}{11} \times 5 = 200$

The total number of boys in level VI = 440 – 200 = 240

The total number of girls in level VII = 200 + 50 = 250

The total number of students in level VII

$= \frac{2200}{100} \times 35 = 770$

The total number of boys in level VII = 770 – 250 = 520

$\therefore$ Reqd. ratio = $\frac{240}{520}$ = 6 : 13

Hence, option D is correct.

3. The total number of students in level VI in 2019

$= \frac{2200}{100} \times 20 = 440$

The total number of students in level VI in 2020= $\frac{440}{100} \times 110 = 484$

The total number of students in level VII in 2019= $\frac{2200}{100} \times 35 = 770$

The total number of students in level VII in 2020= $\frac{770}{100} \times 110 = 847$

The total number of students in level VI and level VI together in 2020 = 484 + 847 = 1331

The total number of students in level VIII in 2019= $\frac{2200}{100} \times 15 = 330$

The total number of students in level VIII in 2020= $\frac{330}{100} \times 80 = 264$

∴ Required difference = 1331 – 264 = 1067

Hence, option B is correct.

4. The total number of students in level VIII

$= \frac{2200}{100} \times 15 = 330$

The total number of students in level IX = $\frac{2200}{100} \times 18 = 396$

The total number of students in level VIII and level IX together = 330 + 396 = 726
The total number of girls in level VIII and level IX together = 306 (Given)
The total number of boys in level VIII and level IX together = 726 – 306 = 420

If the total number of boys in level VIII is “x” and the total number of boys in level IX is “x + 40” (Given),

So, x + x + 40 = 420
2x = 380
x = 190

∴ The total number of boys in level VIII is 190.

Hence, option A is correct.

5.

Reqd. % = $\underline{(35\% + 15\%) - (18\% + 12\%)} \times 2200$

100

$= \frac{20}{100} \times 2200 = 440$

Hence, option C is correct.