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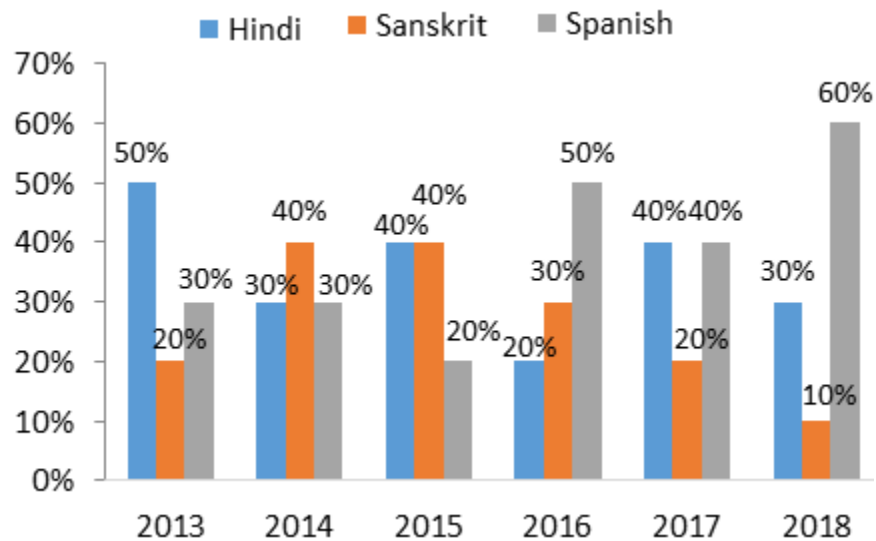
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Date Interpretation Bar Graph Questions for SBI Clerk Pre, IBPS Clerk Pre and IBPS RRB Exams.

DI Bar Chart Quiz 45

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

Below bar graph shows the optional subjects taken by the students in class 10th in terms of percentage from 2013 to 2018.



- 1.** If the number of students in 2018 is 50% more than that in 2017, then the number of Sanskrit students in 2018 is what percent of the number of Spanish students in 2017?
A. 66.66% B. 45.09% C. 37.50% D. 33.33% E. None of these
- 2.** Find the average percentage of students who had taken Hindi as optional subject from 2013 - 2018?
A. 42% B. 27% C. 38% D. 48% E. Data not sufficient
- 3.** The total number of Sanskrit students in 2016 were 120 and the total number of Spanish students in 2015 were 110. Find the difference between total number of students in 2015 and 2016?
A. 110 B. 220 C. 100 D. 120 E. None of these
- 4.** The sum of number of Sanskrit students in 2015 and Spanish students in 2017 was 800 and the total number of students in 2017 were 400 more than 2015. Find the total number of students in 2015 and 2017 together?
A. 2160 B. 2250 C. 2300 D. 2000 E. 1520

5. If the total number of students in 2014 were 2500, then find the ratio of the difference between the number of Sanskrit students and Hindi students in 2014 to the sum of these students in the same year?

A. 4 : 9

B. 3 : 5

C. 1 : 3

D. 3 : 1

E. 1 : 7

Correct Answers:

1	2	3	4	5
C	E	E	D	E

Explanations:

1. Let the number of students in 2017 be 200, so number of students in 2018 = 300

Number of Spanish students in 2017 = 40% of 200 = 80

Number of Sanskrit students in 2018 = 10% of 300 = 30

Therefore,

$$\text{respective \%} = \frac{30}{80} \times 100 = 37.50\%$$

Hence, option C is correct.

2. Since the number of students are not mentioned for any given year, therefore data is not sufficient to calculate the average percentage.

Hence, option E is correct.

3. Number of Sanskrit students in 2016 = 120 which is 30% of total students.

$$\text{So, total students in 2016} = \frac{100}{30} \times 120 = 400$$

Number of Spanish students in 2015 = 110 which is 20% of total students.

$$\text{So, total students in 2015} = \frac{100}{20} \times 110 = 550$$

Therefore, difference = 150

Hence, option E is correct.

4. Let the number of students in 2015 be x , then number of students in 2017 = $x + 400$

Number of students who opted Sanskrit in 2015 = 40% of x i.e. $0.4x$

Number of students who opted Spanish in 2017 = 40% of $(x + 400) = 0.4x + 160$

Also, $0.4x + 0.4x + 160 = 800$. On solving we get $x = 800$

Therefore, the total number of students in 2015 and 2017 together = $800 + 1200 = 2000$

Hence, option D is correct.

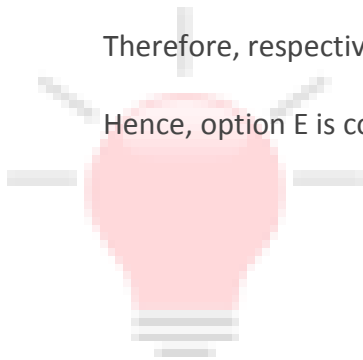
5. Number of Sanskrit students in 2014 = 40% of 2500 = 1000

Number of Hindi students in 2014 = 30% of 2500 = 750

Difference = 250 and sum = 1750

Therefore, respective ratio = 1 : 7

Hence, option E is correct.



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