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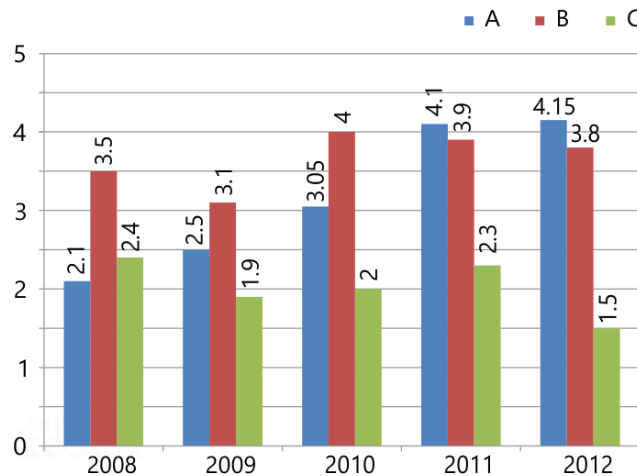
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Date Interpretation Bar Graph Questions for MAT Exams.

DI Bar Chart Quiz 7

Directions: Study the following graph carefully and answer the questions.

The bar graph shows the performance of 3 political parties A, B and C in terms of votes acquired in the elections in a constituency during 2008-2012. The following data given in lakhs.



- By what percent is the average number of votes acquired by B more/less than that of A during 2008-2012?
A. 13% more B. 13% less C. 15% more D. 15% less
- How many more votes are required by C in 2013 than in 2012 to make the ratio of votes with A, 3 : 2, keeping the votes of A same in 2012?
A. 12.45 lakh B. 4.725 lakh C. 6.225 lakh D. 1.27 lakh
- By what per cent should votes of B increase/decrease in 2012 to equal its average during the previous 4 year?
A. Increase by 4.6% B. Increase by 5.8% C. Decrease by 5.8% D. Decrease by 4.6%
- In 2011, by what percent should the votes of C increase to exceed the votes of B in the same year by 12%?
A. 51% B. 33.9% C. 89.9% D. 53%
- What percent of votes were acquired by C with respect to the total votes acquired by all the three parties in 2009?
A. 25.33% B. 41.33% C. 33.33% D. 61.2%

Correct Answers:

1	2	3	4	5
C	B	D	C	B

Explanations:

1. Average of votes acquired by A

$$= \frac{2.1 + 2.5 + 3.05 + 4.1 + 4.15}{5} = 3.18$$

Average of votes acquired by B

$$= \frac{3.5 + 3.1 + 4 + 3.9 + 3.8}{5} = 3.66$$

∴ Required percentage

$$= \frac{3.66 - 3.18}{3.18} \times 100 = 15\%$$

∴ It is 15% more than A.

Hence, option C is correct.

2. Let the required number of votes be x.

$$\text{Then, } \frac{x + 1.5}{4.15} = \frac{3}{2}$$

$$x + 1.5 = \frac{4.15 \times 3}{2}$$

$$x = 6.225 - 1.5 = 4.725 \text{ lakh.}$$

Hence, option B is correct.

3. Average of votes for previous four years

$$= \frac{3.5 + 3.1 + 4 + 3.9}{4} = \frac{14.5}{4}$$

$$= 3.625$$

Hence, the number of votes in 2012 are more than average.

$$\therefore \text{Number of votes that should be decreased} = 3.8 - 3.625 = 0.175 \text{ lakh}$$

∴ Required decrease in percentage

$$= \frac{0.175}{3.8} \times 100\% = 4.6\%$$

Hence, option D is correct.

4. 112% of votes of C = 112% of 3.9

$$= \frac{112 \times 3.9}{100} = 4.368$$

∴ Votes of C must be increased to 4.368

∴ Increased votes = $4.368 - 2.3 = 2.068$

Then, required percentage

$$= \frac{2.068}{2.3} \times 100\% = 89.9\%$$

Hence, option C is correct.

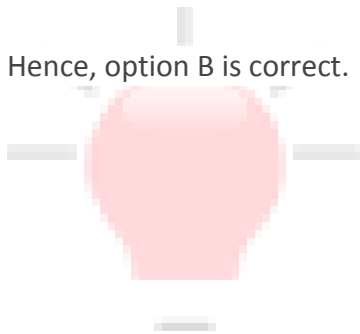
5. Total votes acquired by all three parties

$$= 3.1 + 2.5 + 1.9 = 7.5$$

∴ Required percentage

$$= \frac{3.1}{7.5} \times 100\% = 41.33\%$$

Hence, option B is correct.



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