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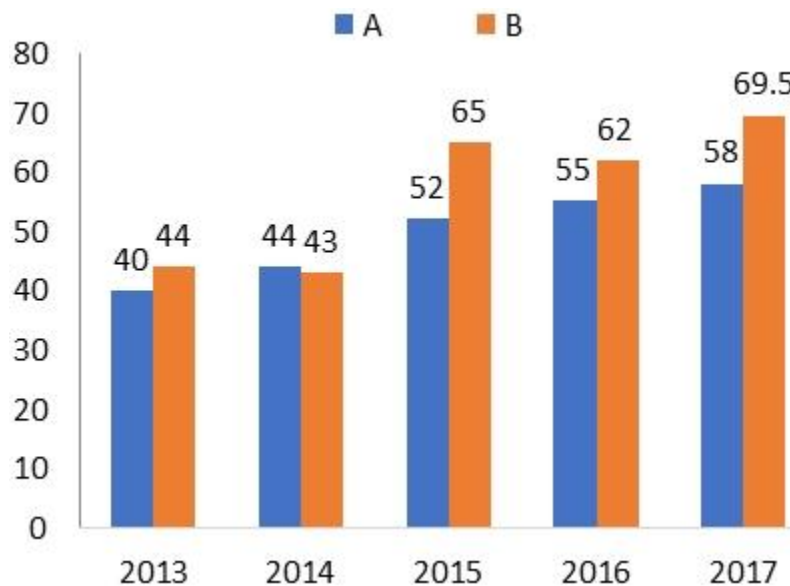
Date Interpretation Mixed Chart Questions Quiz for SBI Clerk Pre and IBPS Clerk Pre Exams.

DI Mixed Chart Quiz 49

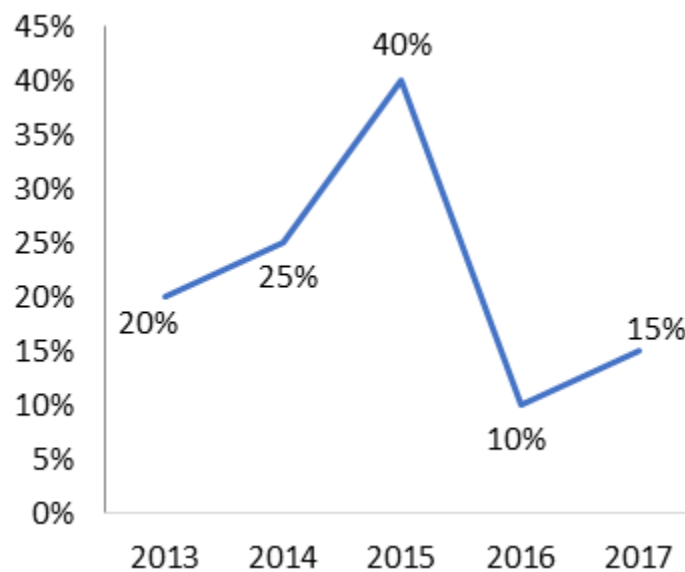
Directions : Study the following line & bar chart carefully and answer the questions given beside.

The graphs given below give the information about only three cities A, B, and C.

The bar graph given below gives the information about the population of city A (in 00's), and the population of the city B (in 00's) from 2013 to 2017.



The line graph given below gives the information about the population of the city C over the total population of all the cities together in the respective years.



1. In the year 2018, the population of each city was increased by 10% over the previous year then in that year what was the total population of all the cities together?

- A. 15500 B. 16250 C. 16500 D. 16750 E. None of these

2. In the year 2013, the population of the city C was what percentage of the population of city A?

- A. 107.5% B. 97.5% C. 52.5% D. 100% E. None of these

3. What was the sum of the population of the city C from 2013 to 2017 (including both years)?

- A. 17450 B. 16350 C. 19650 D. 18800 E. None of these

4. The population of all the cities together in the year 2015 was how many less than that of the year 2016?

- A. 6400 B. 7000 C. 7500 D. 6500 E. None of these

5. In the year 2016 and 2017 together, what was the population of city C?

- A. 3550 B. 2050 C. 4450 D. 3850 E. None of these

Correct Answers:

1	2	3	4	5
C	C	B	D	A

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Explanations:

1. In the year 2017,

Let the population of the city C = a then

$$15\% \text{ of } (a + 58 + 69.5) = a$$

$$15 \times (a + 58 + 69.5) = 100a$$

$$100a - 15a = 85a = 15(58 + 69.5) = 127.5 \times 15$$

$$A = 22.5$$

Since all the values are in (00's) Therefore = 2250

The sum of the population of all the cities = $5800 + 6950 + 2250 = 15000$

Since, the population of all the cities was increased by 10%

Therefore, in the year 2018, the population of all the cities together = 110% of 15000 = 16500

Hence, option C is correct.

2. In the year 2013, let the population of the city C = a then

$$20\% \text{ of } (a + 40 + 44) = a$$

$$20 \times (a + 40 + 44) = 100a$$

$$80a = 20 \times (40 + 44) = 20 \times 84$$

Since all the values are in (00's) Therefore A = 2100

$$\text{The reqd. \%} = \frac{2100 \times 100}{4000} = \frac{420}{4} = 52.5\%$$

Hence, option C is correct.

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3. In the year 2013, let the population of the city C = a then

$$20\% \text{ of } (a + 40 + 44) = a$$

$$20 \times (a + 40 + 44) = 100a$$

$$80a = 20 \times (40 + 44) = 20 \times 84$$

Since all the values are in (00's) Therefore A = 2100

Similarly, in the year 2014,

let the population of the city C = a then

$$25\% \text{ of } (a + 44 + 43) = a$$

$$25 \times (a + 44 + 43) = 100a$$

$$4a - a = 3a = (44 + 43) = 87$$

$$A = \frac{87}{3} = 29$$

Since all the values are in (00's) Therefore = 2900

in the year 2015,

let the population of the city C = a then

$$40\% \text{ of } (a + 52 + 65) = a$$

$$40 \times (a + 52 + 65) = 100a$$

$$2.5a - a = 1.5a = (52 + 65) = 117$$

$$A = \frac{117}{1.5} = 78$$

Since all the values are in (00's) Therefore = 7800

in the year 2016,

let the population of the city A then

$$10\% \text{ of } (a + 55 + 62) = a$$

$$10 \times (a + 55 + 62) = 100a$$

$$10a - a = 9a = (55 + 62) = 117$$

$$A = \frac{117}{9} = 13$$

Since all the values are in (00's) Therefore = 1300

in the year 2017,

let the population of the city C = a then

$$15\% \text{ of } (a + 58 + 69.5) = a$$

$$15 \times (a + 58 + 69.5) = 100a$$

$$100a - 15a = 85a = 15(58 + 69.5) = 127.5 \times 15$$

$$A = 22.5$$

Since all the values are in (00's) Therefore = 2250

The required sum = 2100 + 2900 + 7800 + 1300 + 2250 = 16350

Hence, option B is correct.

4. In the year 2015,
let the population of the city C = a then

$$40\% \text{ of } (a + 52 + 65) = a$$

$$40 \times (a + 52 + 65) = 100a$$

$$2.5a - a = 1.5a = (52 + 65) = 117$$

$$A = \frac{117}{1.5} = 78$$

Since all the values are in (00's) Therefore = 7800

The population of all the cities = 5200 + 6500 + 7800 = 19500

in the year 2016,

let the population of the city A then

$$10\% \text{ of } (a + 55 + 62) = a$$

$$10 \times (a + 55 + 62) = 100a$$

$$10a - a = 9a = (55 + 62) = 117$$

$$A = \frac{117}{9} = 13$$

Since all the values are in (00's) Therefore = 1300

The sum = 1300 + 5500 + 6200 = 13000

The required difference = 19500 - 13000 = 6500

Hence, option D is correct.

5. In the year 2016,
Let the population of the city A then

$$10\% \text{ of } (a + 55 + 62) = a$$

$$10 \times (a + 55 + 62) = 100a$$

$$10a - a = 9a = (55 + 62) = 117$$

$$A = \frac{117}{9} = 13$$

Since all the values are in (00's) Therefore = 1300

in the year 2017,

let the population of the city C = a then

$$15\% \text{ of } (a + 58 + 69.5) = a$$

$$15 \times (a + 58 + 69.5) = 100a$$

$$100a - 15a = 85a = 15(58 + 69.5) = 127.5 \times 15$$

$$A = 22.5$$

Since all the values are in (00's) Therefore = 2250

Therefore, Required sum = 1300 + 2250 = 3550

Hence, option A is correct.



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