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

DI Table Chart Quiz 94

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

The following tables gives the information about the percentage change in the population of five cities, A, B, C, D, and E from 2015 to 2017

| City | From 2015 to 2016 | From 2016 to 2017 |
|------|-------------------|-------------------|
| A | - 20 | +20 |
| B | +15 | - 10 |
| C | +25 | + 25 |
| D | - 10 | + 40 |
| E | + 40 | - 20 |

1. If the population of city A in the year 2015 was 10,000 then what was its population in the year 2017?

- A. 10400 B. 9600 C. 10600 D. 10200 E. None of these

2. In the year 2016, the ratio of the population of city E to the population of city C was 4 : 5. Then what was the respective ratio of their population in the year 2017?

- A. 64 : 125 B. 125 : 64 C. 1 : 2 D. 1 : 3 E. None of these

3. Suppose, in the year 2016, the population of all the cities was equal, then in the year 2015 the population of city D was approximately what percent more than the population of city C?

- A. 42% B. 33% C. 35% D. 39% E. None of these

4. What is the total percentage increase in the population of city E from the year 2015 to 2017?

- A. 12% B. 15% C. 18% D. 21% E. None of these

5. In the year 2015, the population of city C was 25% more than the population of city D, then in the year 2017 the population of city C will be what percent more than the population of city D?

- A. 51% B. 59% C. 55% D. 53% E. None of these

Correct Answers:

| | | | | |
|----------|----------|----------|----------|----------|
| 1 | 2 | 3 | 4 | 5 |
| B | A | D | A | C |

Explanations:

1. The population of city A decreased by 20% from 2015 to 2016 and again it increased by 20% from 2016 to 2017

$$\text{The population of city A in 2017} = 10,000 \times \frac{80}{100} \times \frac{120}{100} = 9600$$

Hence, option B is correct.

2. Let the population of city E in the year 2016 = $4x$ then in the year 2017 it will be decreased by 20%

$$\text{In the year 2017} = (100 - 20)\% \text{ of } 4x = 80\% \text{ of } 4x = 80 \times \frac{4x}{100}$$

And the population of city C in the year 2016 = $5x$ then in the year 2017

$$= (100 + 25)\% \text{ of } 5x = 125 \times \frac{5x}{100}$$

$$\text{The reqd. ratio} = 80 \times \frac{4x}{100} : 125 \times \frac{5x}{100} = 64 : 125$$

Hence, option A is correct.

3. Let in the year 2016, the population of all the cities were equal = x

Let population of city C in the year 2015 = a then $(100 + 25)\%$ of $a = x$

$$a = \frac{100x}{125} = \frac{4x}{5}$$

Let the population of city D in the year 2015 = b then $(100 - 10)\%$ of $b = x$

$$b = \frac{100x}{90} = \frac{10x}{9}$$

$$\text{The reqd. \%} = \frac{\frac{10x}{9} - \frac{4x}{5}}{\frac{4x}{5}} \times 100 = \frac{14x}{45} \times \frac{5}{4x} \times 100$$

$$= \frac{350}{9} = 38.89\% = \text{approximately } 39\%$$

Hence, option D is correct.

4. Let the population of city E in the year 2015 = x

Then the population of city E in the year 2016 will become = (100 + 40)% of x = 1.4x

In the year 2017 = (100 – 20)% of 1.4x = 80% of 1.4x = 1.12x

$$\text{The reqd. \% increase} = \frac{(1.12x - x) \times 100}{x} = 12\%$$

Hence, option A is correct.

Alternate method:

By using successive increase/decrease in percentage-

$$40 - 20 - \left(40 \times \frac{20}{100}\right) = 20 - 8 = 12\%$$

5. In the year 2015, let the population of city D = 4x then the population of city C = 125% of 4x = 5x

$$\text{In the year 2017, the population of city C will become} = \frac{125}{100} \times \frac{125}{100} \times 5x = \frac{125x}{16} = 7.8125x$$

(From 2015 to 2016 it was increased by 25% again from 2016 to 2017 it was increased by 25%)

$$\text{In the year 2017, the population of city D will become} = \frac{90}{100} \times \frac{140}{100} \times 4x = \frac{126x}{25} = 5.04x$$

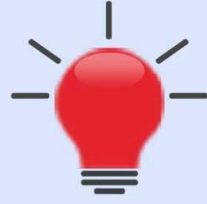
(from 2015 to 2016 it was decreased by 10% and from 2016 to 2017 it was increased by 40%)

$$\text{The reqd. \%} = \frac{7.8125x - 5.04x}{5.04x} \times 100 = \text{approximately } 55\%$$

Hence, option C is correct.

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