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

DI Table Chart No.117

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

The following chart shows the percentage of people who bought different cars from 2013 to 2018.

Cars	Year					
	2013	2014	2015	2016	2017	2018
Bentley	10%	15%	20%	15%	10%	10%
BMW	5%	10%	25%	25%	20%	15%
Nissan	15%	15%	10%	20%	25%	20%

- The population of the city increased by 20% from 2013 to 2014 and also from 2014 to 2015. The total number of people buying Bentley in these three years is what percent of the sum of the population of city in these three years?

A. 14.4% B. 19.2% C. 15.6% D. 18% E. 16.8%
- The number of people buying BMW in 2016 and 2017 were same. If Nissan buyers increased by 5850 from 2016 to 2017, then what was the population of the city in 2017?

A. 60000 B. 58500 C. 55000 D. 65000 E. 52500
- If the number of Bentley buyers doubled from 2014 to 2017, then the number of BMW buyers in 2017 was what percent more than the number of BMW buyers in 2014?

A. 250% B. 200% C. 500% D. 400% E. None of these
- The ratio of the number of persons who bought BMW in 2013 and 2018 was 2 : 9. The population is expected to rise by the same percentage from 2018 to 2020 as it increased from 2013 to 2018. BMW targets to sell to 18% people in 2020. If this target is met, what will be the ratio of BMW buyers in 2020 and 2018?

A. 9 : 5 B. 5 : 2 C. 7 : 3 D. 9 : 4 E. 8 : 3
- If the number of Nissan buyers doubled from 2013 to 2016, then find the ratio between the number of Bentley buyers in 2016 and the number of BMW buyers in 2013?

A. 9 : 2 B. 9 : 4 C. 9 : 5 D. 9 : 7 E. None of these

Correct Answers:

1	2	3	4	5
C	D	C	A	A



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Explanations :

1. Let the population in 2013 was 500N

Then, population in 2014 = $500N \times 1.2 = 600N$

Population in 2015 = $600N \times 1.2 = 720N$

Number of people buying Bentley in 2013 = 10% of 500N = 50N

Number of people buying Bentley in 2014 = 15% of 600N = 90N

Number of people buying Bentley in 2015 = 20% of 720N = 144N

$$\text{Reqd. \%} = \frac{(50N + 90N + 144N)}{(500N + 600N + 720N)} \times 100$$

$$= \frac{284}{1820} \times 100 = 15.6\%$$

Hence, option C is correct.

2. Let the population of the city in 2016 was 100N

BMW buyers in 2016 = 25N = BMW buyers in 2017

$$\therefore \text{Population in 2017} = \frac{25N \times 100}{20} = 125N$$

Nissan buyers in 2016 = 20N

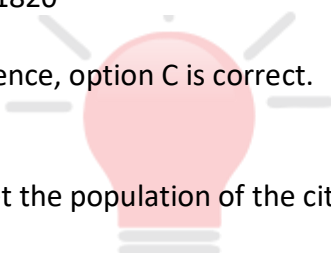
Nissan buyers in 2017 = $125N \times 0.25 = 31.25N$

Given that, $31.25N - 20N = 5850$

$$\Rightarrow N = 520$$

Population in 2017 = $520 \times 125 = 65000$

Hence, option D is correct.



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3. Let the population of the city in 2014 was 100N

Bentley buyers in 2014 = 15N

Given that Bentley buyers in 2017 = 30N

$$\text{Hence, population in 2017} = \frac{30N \times 100}{10} = 300N$$

$$\text{BMW buyers in 2017} = \frac{300N \times 20}{100} = 60N$$

$$\text{BMW buyers in 2014} = \frac{100N \times 10}{100} = 10N$$

$$\text{Reqd. \%} = \frac{60N - 10N}{10N} \times 100 = 500\%$$

Hence, option C is correct.

4. Let the population in 2013 was 100N

BMW buyers in 2013 = 5N

$$\text{BMW buyers in 2018} = \frac{5N \times 9}{2} = 22.5N$$

$$\text{Population in 2018} = \frac{22.5N \times 100}{15} = 150N$$

Percent rise in population from 2013 to 2018 = 50%

Population in 2020 = 150N × 1.5 = 225N

Number of BMW buyers in 2020 = 225N × 0.18 = 40.5N

Required ratio = 40.5 : 22.5 = 9 : 5

Hence, option A is correct.



5. Let the population of the city in 2013 was 100N

Nissan buyers in 2013 = 15N

∴ Nissan buyers in 2016 = 30N

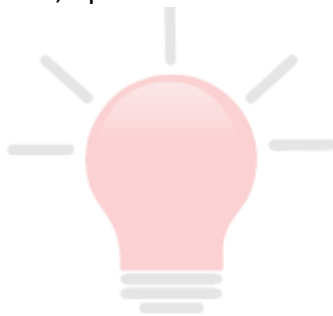
Hence, population in 2016 = $\frac{30N \times 100}{20} = 150N$

Bentley buyers in 2016 = $\frac{150N \times 15}{100} = 22.5N$

BMW buyers in 2013 = $\frac{100N \times 5}{100} = 5N$

Required ratio = 22.5 : 5 = 9 : 2

Hence, option A is correct.



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