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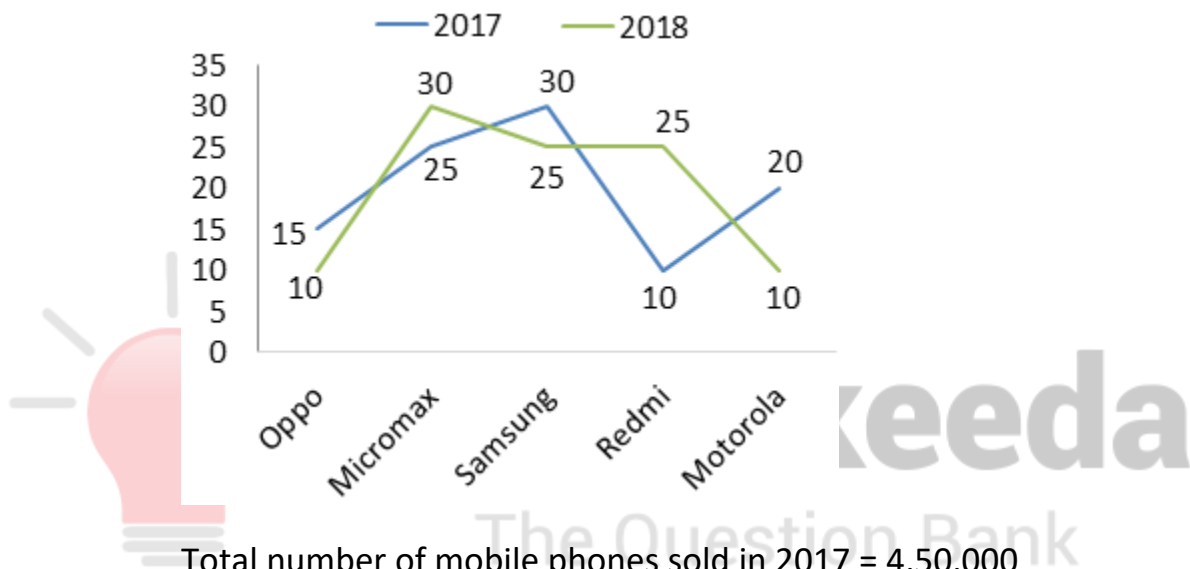
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DI Line Chart Questions for IBPS PO Pre, SBI PO Pre, SBI Clerk Mains, IBPS Clerk Mains, LIC AAO Pre and IBPS RRB Scale I Pre Exams.

DI Line Chart No 48

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

The percentage of 5 different types of mobile phones sold by a Store in 2017 and 2018.

Total number of mobile phones sold in 2017 = 4,50,000

Total number of mobile phones sold in 2018 = 5,20,000

1. **If 15% of Motorola mobiles sold during 2017 and 2018 were returned by the customers due to some defects, then how many Motorola mobiles sold by the store were non-defective?**

A. 142800   B. 121825   C. 120700   D. 21300   E. None of these

2. **Find the ratio of the difference between the number of Samsung and Redmi mobiles sold in 2018 and 2017 respectively, and the number of Motorola mobiles sold in 2018.**

A. 45 : 82   B. 75 : 62   C. 85 : 52   D. 63 : 55   E. None of these

3. **What was the difference in the total number of Samsung mobiles sold in 2017 and 2018?**

A. 5000   B. 7500   C. 10000   D. 2500   E. None of these

4. From 2017 to 2018, for which of the following mobile phones was the increase in percentage sale maximum?
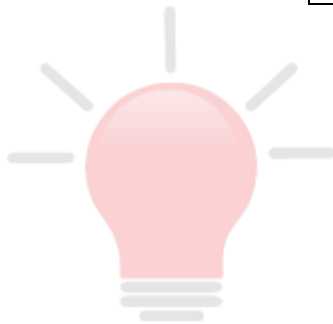
A. Oppo   B. Motorola   C. Redmi   D. Micromax   E. Samsung

5. If the percentage of Micromax mobiles sold in 2018 was the same as that of 2017, what would have been the number of Micromax mobiles sold in 2018?

A. 112500   B. 120000   C. 125000   D. Data inadequate   E. None of these

Correct Answers:

1	2	3	4	5
C	C	A	C	E

Explanations :

1. Number of Motorola mobiles sold in 2017

= 20% of 450000 = $\frac{20}{100}$ × 4,50,000 = 90,000

Similarly, Number of Motorola mobiles sold in 2018 = $\frac{10}{100}$ × 5,20,000 = 52,000

∴ Total Motorola mobiles sold in these two years = 90000 + 52000 = 1,42,000

Given that, out of these 1,42,000 Motorola mobiles, 15% of the mobiles are returned by the customer.

∴ Number of Motorola mobiles sold by the store were non-defective = (100 − 15)% of 1,42,000

= $\frac{85}{100}$ × 1,42,000 = 120700

Hence, Option C is correct.

2. The number of Samsung mobiles sold in 2018 = 25% of 5,20,000

= $\frac{25}{100}$ × 5,20,000 = 1,30,000

The number of Redmi mobiles sold in 2017 = 10% of 4,50,000= $\frac{10}{100}$ × 4,50,000 = 45,000

The number of Motorola mobiles sold in 2018 = 10% of 5,20,000 = $\frac{10}{100}$ × 5,20,000 = 52,000

Required ratio = (1,30,000 − 45,000): 52,000 = 85,000 : 52,000 = 85 : 52

Hence, Option C is correct.

3. Total number of Samsung mobile sold in 2017 = 30 % of 4,50,000

= $\frac{30}{100}$ × 4,50,000 = 1,35,000

Total number of Samsung mobile sold in 2018 = 25% of 5,20,000

= $\frac{25}{100}$ × 5,20,000 = 1,30,000

∴ The difference in Samsung mobiles sold in 2017 and 2018 = Rs. (1,35,000 − 1,30,000) = 5,000

Hence, Option A is correct.

4.

Type of mobile	2017		2018		Change from 2017 to 18	% increase
	% of mobile sold	No. of mobile sold	% of mobile sold	No. of mobile sold		
Oppo	15	67500	10	52000	− 15500	decrease
Micromax	25	112500	30	156000	43500	38.67
Samsung	30	135000	25	130000	− 5000	decrease
Redmi	10	45000	25	130000	85000	188.89
Motorola	20	90000	10	52000	− 38000	decrease

As we can see from this table that, Number of Mobile sold for Micromax and Redmi are increasing from 2017 to 2018 and among that, increase in Micromax is less than that in Redmi.

Hence, Option C is correct.

5.

Percentage of Micromax mobile sold in 2018 = Percentage of Micromax mobile sold in 2017

∵ Percentage of Micromax mobile sold in 2017 = 25%

∴ Percentage of Micromax mobile sold in 2018 = 25%

∴ Number of Micromax mobile sold in 2018 = 25% of 520000

$= \dfrac{25}{100} \times 520000 = 130000$

Hence, Option E is correct.

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