DI table Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

DI Table Chart No. 110

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

There are only four brands of entry level of Jeans A, B, C and D in a country. Details about their market share, unit selling price, and profitability (defined as the profit as a percentage of the revenue) for the year 2018 are given in the table below:

Brand	Market Share (%)	Unit selling price (in Rs.)	Profitability
A	30	8,000	20%
B	10	6,500	25%
C	25	5,000	30%
D	35	7,500	15%

In 2019, sales volume of entry level of Jeans grew up by 100% as that in 2018. C offered 20% discount on its selling price in 2019 which resulted in increase of 12% in market share. Each of the three rest brand lost 4% market share. However, the profitability of C came down to 70% of its value in 2018. The unit selling prices of the other three brands and their profitability values remained the same in 2019 as they were in 2018.

1. **Find the difference between total profit of brand A in 2018 and total profit of brand C in 2019.**

A. Rs. 12,360   B. Rs. 14,160   C. Rs. 14,820   D. Rs. 12,640   E. Rs. 11,200

2. **What is the ratio of total profit of brand C in 2018 to total profit of brand B in 2019?**

A. 28 : 15   B. 21 : 10   C. 25 : 13   D. 16 : 7   E. 34 : 11

3. **What is the total profit of all four brands together is 2018?**

A. Rs. 1,44,125   B. Rs. 1,42,125   C. Rs. 1,46,125   D. Rs. 1,41,125   E. Rs. 1,48,125

4. **Total profit of brands A and B together in 2019 is what percent of total profit of brands C and D together in 2019?**

A. 72.4%   B. 77.8%   C. 68.2%   D. 81.6%   E. 86.2%

5. **Which of the following is correct?**

I. Difference between profits of A and D in 2018 is Rs. 8625

II. Total profits of C in both years together is Rs. 99660

III. Profit of B increased by 20% in 2019 form 2018.
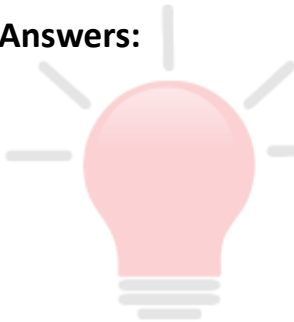
A. only II   B. Only I and II   C. All I, II and III   D. Only III   E. Only II and III

Correct Answers:

1	2	3	4	5
B	C	D	B	C

Common Explanations :

Let, total sales of all brands in 2018 be 100.

So, total sales of all brands in 2019 = 200% of 100 = 200

For brand A in 2018:

Profit = 30 × 8000 × 20% = Rs. 48,000

For brand A in 2019:

Total sales = 26% of 200 = 52 units

Profit = 52 × 8000 × 20% = Rs. 83,200

Accordingly, we can fill the following table:

Brand	2018				2019			
	Sales	Unit selling price (in Rs.)	Profitability (in Rs.)	Profit (in Rs.)	Sales	Unit selling price (in Rs.)	Profitability (in Rs.)	Profit (in Rs.)
A	30	8,000	20%	48,000	52	8,000	20%	83,200
B	10	6,500	25%	16,250	12	6,500	25%	19,500
C	25	5,000	30%	37,500	74	4,000	21%	62,160
D	35	7,500	15%	39,375	62	7,500	15%	69,750
Total	100				200			

Answers :

1. From the common explanation, we have

Difference = 62160 – 48000 = Rs. 14,160

Hence, option B is correct.

2. From common explanation, we have

Ratio = 37500 : 19500 = 25 : 13

Hence, option C is correct.

3. From common explanation, we have

Total profit = 48000 + 16250 + 37500 + 39375 = Rs. 1,41,125

Hence, option D is correct.

4. From common explanation, we have

Total profit of brands A and B together in 2019 = 83200 + 19500 = 1,02,700
Total profit of brands C and D together in 2019 = 62160 + 69750 = 1,31,910

Percentage $= \dfrac{102700}{131910} \times 100 = 77.8\%$

Hence, option B is correct.

5. From common explanation, we have

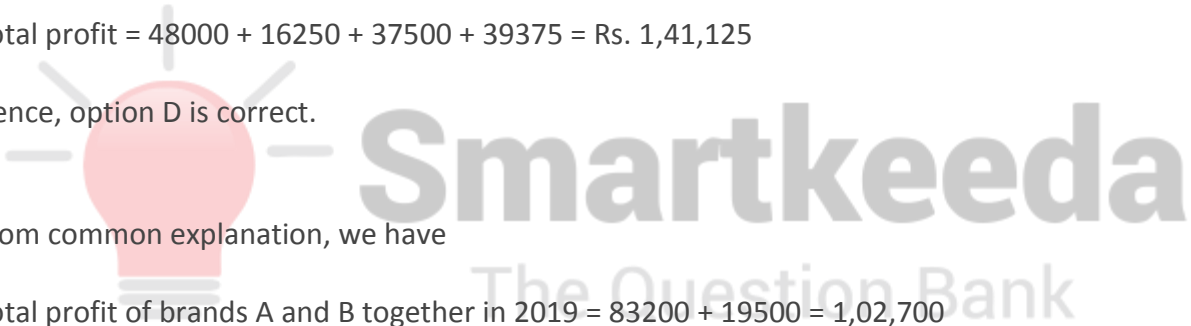I. Difference between profits of A and D in 2018 is Rs. 8625
Difference = 48000 – 39375 = Rs. 8625

II. Total profit of C in both years together is Rs. Rs. 99660
Total profit = 37500 + 62160 = Rs. 99660

III. Profit of B increased by 20% in 2019 form 2018.
Percentage increase $= \dfrac{19500 - 16250}{16250} \times 100 = 20\%$

Hence, option C is correct.