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# Data Interpretation Questions for IBPS PO Pre, IBPS SO Pre, IBPS Clerk, SBI PO Pre and SBI Clerk

## DI TABLE CHART NO. 82

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

The following table shows the discount % given by different stores on different books. The marked price of every book on all stores are same.

Books	Stores			
	1	2	3	4
A	12%		24%	18%
B	16%	12%	8%	
C	15%			10%
D		6%	9%	

1. The average selling price of book B in store 2 and 3 is Rs. 585. What is the selling price of book B in store 2?

- A. Rs. 650                      B. Rs. 598                      C. Rs. 520  
D. Rs. 572                      E. Rs. 533

2. The selling price of book A in store 1 is Rs. 396 and difference of selling price in store 2 and 3 is Rs. 36. What is the discount percentage in store 2?

- A. 18%                          B. 20%                          C. 16%  
D. 10%                          E. 12%

3. By selling book A store 1 makes a profit of 10%. What is the profit/loss percent incurred by store 3 on the same book?

A. 5% profit

B. 5% loss

C. 10% profit

D. 4% loss

E. 10% loss

**4. The average selling price of book D in store 2 and 3 is Rs. 1110. What is the marked price of book D?**

A. Rs. 1200

B. Rs. 1100

C. Rs. 1250

D. Rs. 1500

E. Rs. 1550

**5. Ratio of discount percentage on book C in store 1 and 2 is 3 : 2. If selling price in store 1 is Rs. 221, then what is the selling price in store 2?**

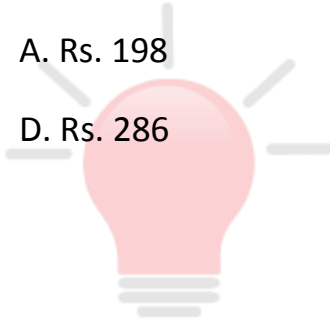
A. Rs. 198

B. Rs. 234

C. Rs. 260

D. Rs. 286

E. Rs. 208



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### Correct answers:

1	2	3	4	5
D	C	B	A	B

### Explanations:

1.

Let, marked price of book B = Rs. x

Discount in store 2 = 12%

∴ Selling price in store 2

$$\Rightarrow \text{Rs. } \left(x - x \times \frac{12}{100}\right) = \text{Rs. } (x - 0.12x) = \text{Rs. } 0.88x$$

Discount in store 3 = 8%

∴ Selling price in store 3

$$\Rightarrow \text{Rs. } \left(x - x \times \frac{8}{100}\right) = \text{Rs. } (x - 0.08x) = \text{Rs. } 0.92x$$

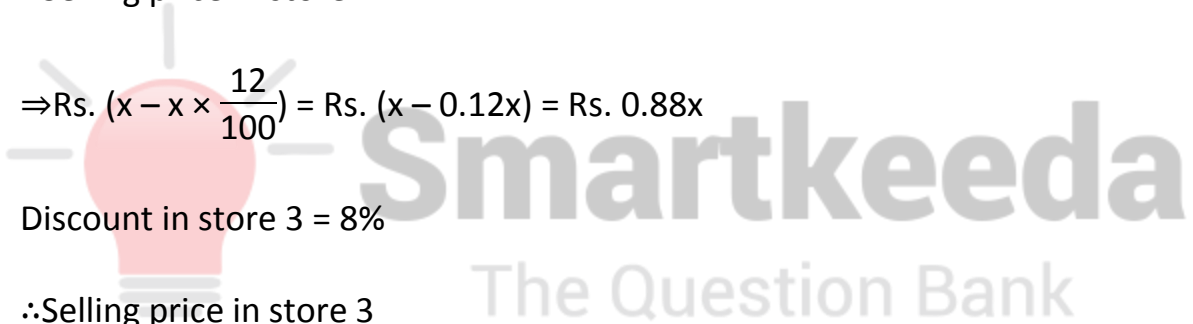
According to problem,

$$\Rightarrow \frac{1}{2} (0.88x + 0.92x) = 585$$

$$\Rightarrow \frac{1}{2} \times 1.8x = 585$$

$$\Rightarrow 0.9x = 585.$$

$$\Rightarrow x = \frac{585}{0.9}$$



$$\Rightarrow x = 650$$

∴ Marked price of book B = Rs. 650

∴ Selling price of book B in store 2 = Rs.  $(0.88 \times 650)$  = Rs. 572

Hence, option D is correct.

2.

Let, marked price of book A = Rs. x

Discount in store 1 = 12%

∴ Selling price in store 1

$$\Rightarrow \text{Rs.} \left( x - x \times \frac{12}{100} \right) = \text{Rs.} (x - 0.12x) = \text{Rs.} 0.88x$$

According to problem,

$$\Rightarrow 0.88x = 396$$

$$\Rightarrow x = \frac{396}{0.88}$$

$$\Rightarrow x = 450$$

∴ Marked price of book A = Rs. 450

Let, discount in store 2 = a%

∴ Selling price in store 2

$$\Rightarrow 450 - 450 \times \frac{a}{100} = \text{Rs.} (450 - 4.5a)$$

Discount in store 3 = 24%

∴ Selling price in store 3

$$\Rightarrow \text{Rs.} \left( x - x \times \frac{24}{100} \right) = \text{Rs.} (x - 0.24x) = \text{Rs.} 0.76x = \text{Rs.} .76 \times 450 = \text{Rs.} 342$$

According to problem,

$$\Rightarrow (450 - 4.5a) - 342 = 36$$

$$\Rightarrow 450 - 4.5a = 378$$

$$\Rightarrow 4.5a = 72$$

$$\Rightarrow a = \frac{72}{4.5}$$

$$\Rightarrow a = 16$$

∴ the discount percentage in store 2 = 16%

Hence, option C is correct.

**3.**

Let, marked price of book A = Rs. x

Discount in store 1 = 12%

∴ Selling price in store 1

$$\Rightarrow \text{Rs.} \left( x - x \times \frac{12}{100} \right) = \text{Rs.} (x - 0.12x) = \text{Rs.} 0.88x$$

Let, cost price of book A = Rs. y

Profit by store 1 = 10%



∴ Selling price in store 1

$$\Rightarrow \text{Rs.} \left( y + y \times \frac{10}{100} \right) = 1.1y$$

According to problem,

$$\Rightarrow 1.1y = 0.88x$$

$$\Rightarrow y = 0.8x$$

∴ Cost price of book A =  $0.8x$

Discount in store 3 = 24%

∴ Selling price in store 3

$$\Rightarrow \text{Rs.} \left( x - x \times \frac{24}{100} \right) = \text{Rs.} (x - 0.24x) = \text{Rs.} 0.76x$$

$$\therefore \text{Loss} = \text{Rs.} (0.8x - 0.76x) = \text{Rs.} 0.04x$$

∴ Loss percentage,

$$\Rightarrow \frac{0.04x}{0.8x} \times 100\% \Rightarrow 5\%$$

Hence, option B is correct.

**4.**

Let, marked price book D = Rs.  $x$

Discount in store 2 = 6%

$$\therefore \text{Selling price in store 2} = \text{Rs.} \left( x - x \times \frac{6}{100} \right) = \text{Rs.} 0.94x$$

Discount in store 3 = 9%

$$\therefore \text{Selling price in store 3} = \text{Rs. } \left(x - x \times \frac{9}{100}\right) = \text{Rs. } 0.91x$$

According to problem,

$$\Rightarrow (0.94x + 0.91x) = 1110 \times 2$$

$$\Rightarrow 1.85x = 1110 \times 2$$

$$\Rightarrow x = \frac{2220}{1.85}$$

$$\Rightarrow x = 1200$$

$\therefore$  the marked price of book D = Rs. 1200

Hence, option A is correct.

5.

Let, marked price of book C = Rs. x

Let, discount percentage on book C in store 2 = a%

Discount percentage on book C in store 1 = 15%

According to problem,

$$\Rightarrow \frac{15}{a} = \frac{3}{2}$$

$$\Rightarrow a = 10$$

$\therefore$  discount percentage on book C in store 2 = 10%





$$\therefore \text{Selling price of book C in store 1} = \text{Rs. } \left(x - x \times \frac{15}{100}\right) = \text{Rs. } 0.85x$$

According to problem,

$$\Rightarrow 0.85x = 221$$

$$\Rightarrow x = \frac{221}{0.85}$$

$$\Rightarrow x = 260$$

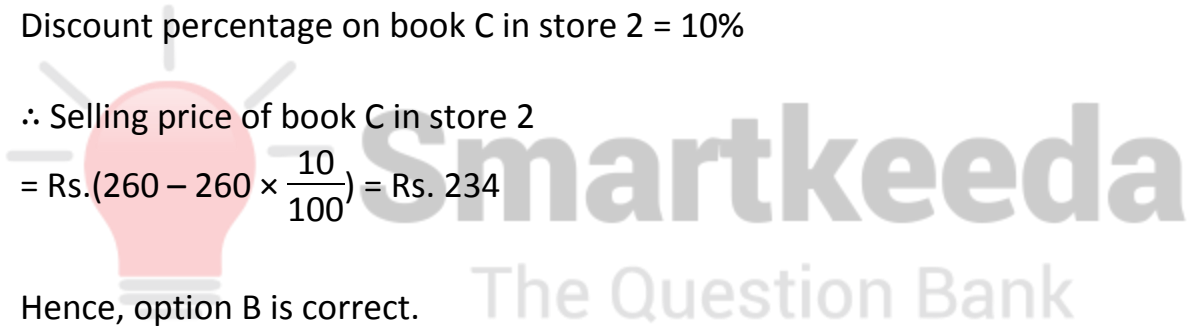
$\therefore$  marked price of book C = Rs. 260

Discount percentage on book C in store 2 = 10%

$\therefore$  Selling price of book C in store 2

$$= \text{Rs. } \left(260 - 260 \times \frac{10}{100}\right) = \text{Rs. } 234$$

Hence, option B is correct.





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