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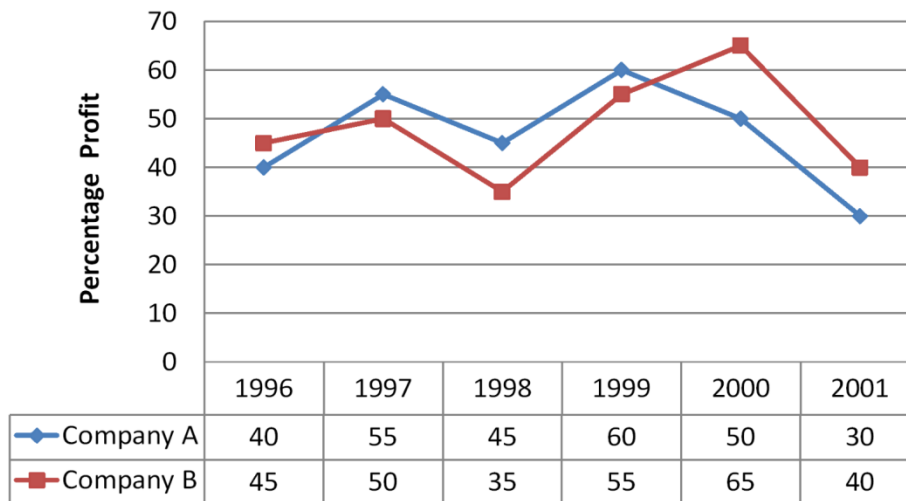
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# Date Interpretation Line Chart Questions for Bank Clerk Pre Exams.

## DI Line Chart Quiz 13

Direction : Study the following line graph carefully to answer the questions that follow.

Percentage profit earned by two companies over the given years



$$\% \text{ profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

1. If the income of Company A in 1998 is equal to its expenditure in 2000, what was the ratio between Company's expenditures in the years 1998 and 2000 respectively?

- A. 29 : 20      B. 20 : 29      C. 19 : 20      D. Can't be determined  
E. None of these

2. If the income of Company B in 1999 was Rs. 18.6 lakhs and ratio of incomes of Companies A & B in 1999 was 2 : 3, what was the expenditure of Company A in 1999 (in Rs. lakhs)?

- A. 12      B. 12.4      C. 7.75      D. 9.75      E. None of these

3. If the total expenditure of the two Companies in 2001 was Rs. 18 lakhs and expenditures of Companies A & B in that year were in the ratio of 4 : 5 respectively, then what was the income of Company B in that year (in Rs. lakh)?

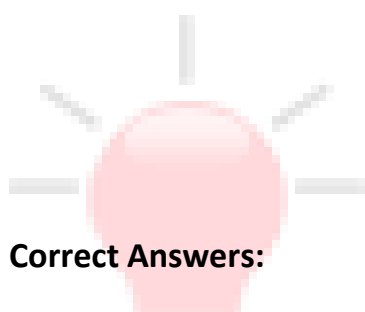
- A. 8      B. 10      C. 10.4      D. Can't be determined  
E. None of these

4. If the income of Company A in 1999 was equal to the expenditure of Company B in 2000, then what was the ratio of expenditure of Company A in 1999 to the income of Company B in 2000 ?

- A. 25 : 66                      B. 66 : 25                      C. 10 : 13                      D. 13 : 10                      E. None of these

5. If the total income of Company A in all the years together was equal to the total expenditure of Company B in all the years together, which was Rs. 265 lakhs, what was the total percentage profit earned by Company A for all the years together?

- A. 45                      B. 37                      C. 52                      D. Can't be determined  
E. None of these



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**Correct Answers:**

1	2	3	4	5
B	C	E	A	D

**Explanations:**

**1.**

$$E_{98} : E_{2000} = I_{98} \left( \frac{100}{145} \right) : E_{2000}$$

$$= 100 : 145 \quad (\because I_{98} = E_{2000}) = 20 : 29$$

Hence, option B is correct.

**2.** According to the given information,

$$\frac{\text{Income of company A in 1999}}{\text{Income of company B in 1999}} = \frac{2}{3}$$

$$\Rightarrow \text{Income of company A in 1999} = \frac{2}{3} \times 18.6$$

$$I_{A99} = 12.4 \text{ lakhs}$$

$$\Rightarrow E_{A99} = 12.4 \left( \frac{100}{160} \right)$$

$$= 7.75 \text{ lakhs}$$

Hence, option C is correct.

**3.** Suppose expenditures of A and B in the year 2001 are  $4x$  and  $5x$  respectively. Then

$$4x + 5x = 18 \text{ lakhs}$$

$$\therefore x = 2 \text{ lakhs;}$$

$$4x = 8 \text{ lakhs;}$$

$$5x = 10 \text{ lakhs}$$

$$I_{NB} = 10 \left( \frac{140}{100} \right) = 14 \text{ lakhs}$$

Hence, option E is correct.

**4.**  $I_{nA99} = E_{B2000}$  (given)

Now,

$$E_{A99} : I_{nB2000} = I_{nA99} \left( \frac{100}{160} \right) : E_{B2000} \left( \frac{165}{100} \right)$$

$$= 100 \times 100 : 160 \times 165 = 25 : 66$$

Hence, option A is correct.

**5.** We can't find the expenditure of company A in the given years separately. So we can't find the profit of the company.

Hence, option D is correct.

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