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DI Line Chart Questions for RBI Grade B, RBI Assistant Mains, SBI Clerk Mains and IBPS Clerk Mains Exams.

DI Line Chart No 49

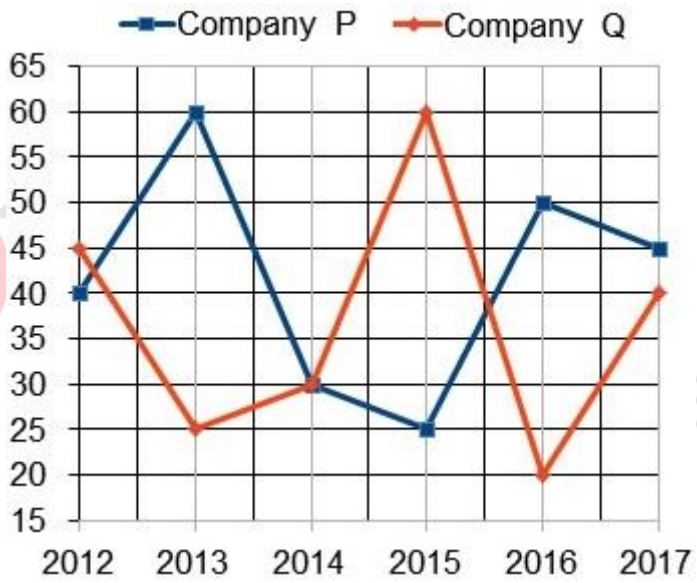
Directions : Study the following line chart carefully and answer the questions given beside.

Percent Profit earned by two companies producing electronic equipments from the year 2012 to 2017.

Profit % for a year = {(Revenue – Investment)/Investment} x 100

Profit = Revenue – Investment

Profit % of P and Q



1. Amount invested by company P in the year 2014 was Rs. 12 lakh. What was the revenue of company P in the same year?

A. 14 lakh B. 15.6 lakh C. 13.7 lakh D. 14.2 lakh E. None of these

2. Company Q made a profit of Rs. 30500 in the year 2016. What was the investment made by company Q in the same year?

A. Rs. 244000 B. Rs. 185000 C. Rs. 150000 D. Rs. 152500 E. None of these

3. Company P invested Rs. 12,000 more than company Q in the year 2012. The profit earned by Q was Rs. 5200 more than P. Find the ratio of investment by the companies P and Q in the year 2012.

A. 53 : 50 B. 49 : 45 C. 41 : 35 D. 31 : 24 E. None of these

4. **The revenue of company P in the year 2015 was equal to the revenue of company Q in 2016. Find the ratio of investment by company P in 2015 and Q in 2016.**

A. 25 : 26 B. 24 : 25 C. 26 : 25 D. 21 : 20 E. None of these

5. **Investment of company P in the years 2014, 2016 and 2017 was Rs. 4.20 lakh, Rs. 3.54 lakh and Rs. 3.60 lakh respectively. Find the average profit for these three years.**

A. 1.12 lakh B. 1.20 lakh C. 1.26 lakh D. 1.55 lakh E. None of these

6. **Company P invested Rs. 9,21,600 in the year 2018. The revenue of P in the year 2018 was equal to the revenue of Q in 2015 in which Q had invested Rs. 7.2 lakh. Find the profit percent of company P in the year 2018.**

A. 20% B. 25% C. 15% D. 30% E. None of these

Correct Answers:

1	2	3	4	5	6
B	D	A	B	D	B

Explanations :

1. Profit % in year 2014 of company P = 30%

Investment = Rs. 12 lakh

From the given formula, we have

$$30 = \frac{(\text{Revenue} - 12 \text{ lakh})}{12 \text{ lakh}} \times 100$$

3.6 lakh = Revenue – 12 lakh

Revenue = 15.6 lakh

Hence, option B is correct.

2. Profit = 30500

Profit % in year 2016 = 20%

Means, 20% of investment = profit = 30500

$$\text{Investment} = \frac{30500 \times 100}{20} = 152500$$

Hence, option D is correct.

3. Let companies P and Q invested Rs. p and Rs. q in the year 2012 respectively.
Thus p = q + 12000 ----(i)
Profit % of P in 2012 = 40%
Profit of P = 40% of p = 0.4p
Profit % of Q in 2012 = 45%
Profit of Q = 45% of q = 0.45q
The profit earned by Q was Rs. 5200 more than P, so
Profit difference = 0.45q – 0.4p = 5200
From (i), we get
Difference = 0.45q – 0.4 (q + 12000) = 0.05q – 4800 = 5200
q = 2 lakh
and from (i), we get
p = 2 lakh + 12000 = 2.12 lakh
Ratio = 2.12 : 2 = 53 : 50
Hence, option A is correct.

4. Let the revenue of both companies was Rs. y, then

Profit of P in 2015 = 25= $\frac{(y - \text{Investment})}{(\text{Investment})} \times 100$

Investment = 4y – 4(Investment)

Investment = $\frac{4}{5}y$

Profit of Q in 2016 = 20 = $\frac{(y - \text{Investment})}{(\text{Investment})} \times 100$

Investment = 5y – 5(Investment)

Investment = $\frac{5}{6}y$

Ratio of investment of P and Q = $\frac{4y}{5} : \frac{5y}{6}$ = 24 : 25

Hence, option B is correct.

5. Let for a given year, profit is R%, then

R = $\frac{(\text{Revenue} - \text{Investment})}{(\text{Investment})} \times 100$

$\frac{R}{100}$ (Investment) = Revenue – Investment

Profit = Revenue – Investment = $\frac{R}{100}$ (Investment)

For year 2014, profit is 30%. So R = 30, and investment = 4.2 lakh

Profit for year 2014 = $\frac{30}{100}$ (4.2 lakh) = 1.26 lakh

Similarly,

Profit for year 2016 = $\frac{50}{100}$ (3.54 lakh) = 1.77 lakh

Profit for year 2017 = $\frac{45}{100}$ (3.6 lakh) = 1.62 lakh

Average = $\frac{(1.26 + 1.77 + 1.62)}{3}$ = 1.55 lakh

Hence, option D is correct.

6. Company Q had invested Rs. 7.2 lakh in 2015 and made a profit of 60%. So

$$60 = \frac{(\text{Revenue} - 7.2)}{7.2} \times 100$$

Revenue = 7.2 + 4.32 = 11.52 lakh

Revenue of P in 2018 was equal to revenue of Q in 2015, so

Revenue of P in 2018 = 11.52 lakh

Investment of P in 2018 = Rs. 921600

Profit = Revenue – Investment = 1152000 – 921600 = 2.304 lakh

$$\text{Profit percent} = \frac{2.304}{9.216} \times 100 = 25\%$$

Hence, option B is correct.