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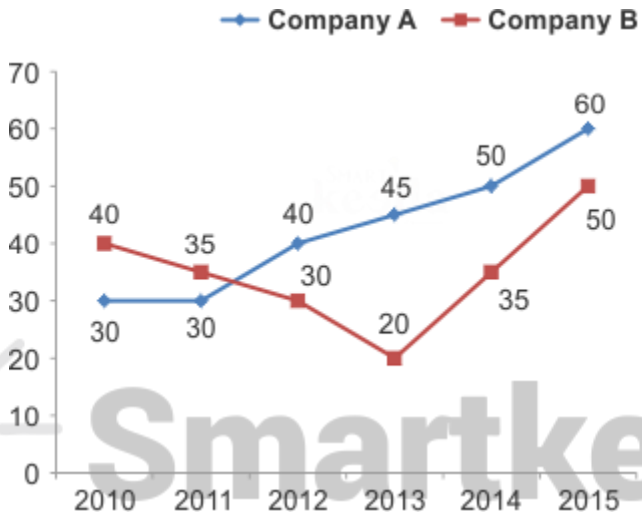
DI Line Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant Pre and IBPS RRB Assistant Pre Exams.

DI Line Chart No 44

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

The given graph shows the profit percentage of two companies over the years.



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Profit = Income – Expenditure

$$\text{Profit\%} = \text{Profit} \times \frac{100}{\text{Expenditure}}$$

1. If the expenditure of company A in 2010 was Rs. 800 crores, what was its income?

A. Rs. 1040 crores
B. Rs. 940 crores
C. Rs. 880 crores
D. Rs. 980 crores
E. Rs. 920 crores

2. If the income of company B in 2014 was Rs. 600 crores, what was its expenditure?

A. Rs. 484.44 crores
B. Rs. 444.44 crores
C. Rs. 454.44 crores
D. Rs. 464.44 crores
E. Rs. 424.44 crores

3. If the income of two companies are equal in 2011, what was the ratio of their expenditure?

A. 25/26
B. 28/27
C. 27/26
D. 29/28
E. 23/22

4. What is the percentage increase in the profit percentage for company B from 2012 to 2015?

A. 33.33% B. 11.11% C. 45% D. 66.67% E. 55.55%

5. If the expenditure of both the companies are equal in 2015, then find the ratio of their income.

A. 17 : 18 B. 13 : 14 C. 14 : 15 D. 11 : 12 E. 16 : 15

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Correct Answers:

1	2	3	4	5
A	B	C	D	E

Explanations :

1. Expenditure = 800 crores

Profit % = 30%

$30 = \text{Profit} \times \frac{100}{800}$

Profit = 240

Income = Profit + Expenditure

Income = 240 + 800 = Rs. 1040

Hence, option A is correct.

2. Profit percentage of company B in 2014 = 35%

Income = Rs. 600 crores

Income = Expenditure (1 + P%)

$600 = \text{Expenditure} \left(1 + \frac{35}{100}\right)$

$\text{Expenditure} = \frac{600}{1.35}$

Expenditure = Rs. 444.44 crores

Hence, option B is correct.

3. Profit percentage in 2011 of company A = 30%

Profit percentage in 2011 of company B = 35%

Income of company A = income of company B

Income = Expenditure(1 + P%)

$\text{Expenditure}_A \left(1 + \frac{30}{100}\right) = \text{Expenditure}_B \left(1 + \frac{35}{100}\right)$

$\frac{\text{Expenditure}_A}{\text{Expenditure}_B} = \frac{1.35}{1.30} = \frac{27}{26}$

Hence, option C is correct.

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4. In Company B, Profit percentage in 2012 = 30%

Profit percentage in 2015 = 50%

Reqd. % $= \frac{50 - 30}{30} \times 100 = 66.67\%$

Hence, option D is correct.

5. In 2015,

Profit percentage of company A = 60%

Profit percentage of company B = 50%

$\text{Expenditure}_A = \text{Expenditure}_B$

Expenditure(1 + P%) = Income

$\text{Income}_A \left(1 + \frac{50}{100}\right) = \text{Income}_B \left(1 + \frac{60}{100}\right)$

$\frac{\text{Income}_A}{\text{Income}_B} = \frac{1.60}{1.50} = \frac{16}{15}$

Hence, option E is correct.

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