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Date Interpretation Bar Graph Questions for Bank Exams.

DI Bar Chart Quiz 17

Directions: Study the graph carefully and answer the following questions.

The following bar graph shows the income and Expenditures (in million US $) of five companies in the year 2011. The percent profit or loss of a company is given by

Income and Expenditure (in million US $) of given companies in the year 2011

$$\text{Percentage profit/loss} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100\%$$
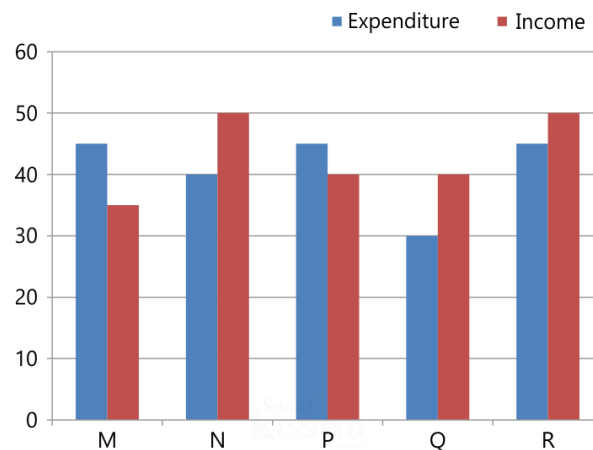
1. The companies M and N together had a percentage profit/loss of

A. 12% loss   B. 10% loss   C. 10% profit   D. there was no loss or profit
E. None of these

2. In 2011, what was the approximate percentage of profit/loss of all the five companies taken together?

A. 5% profit   B. 6.5% profit   C. 4% loss   D. 7% loss   E. None of these

3. Which company earned the maximum percentage profit in the year 2011?

A. M   B. N   C. P   D. Q   E. None of these

4. For company R, if the expenditure had increased by 20% in year 2011 from year 2010 and the company has earned profit of 10% in 2010, what was the company's income in 2010 (in million US $)?

A. 35.75   B. 37.25   C. 38.5   D. 41.25   E. None of these

5. If the income of company Q in 2011 was 10% more than its income in 2010 and the company had earned profit of 20% in 2010, then its expenditure in 2010 (in million US $) was

A. 28.28   B. 30.30   C. 32.32   D. 34.34   E. None of these

Correct Answers:

1	2	3	4	5
D	A	D	D	B

Explanations:

1.   Total income of companies M and N together = $ (35 + 50) = $ 85 US million
Total expenditure of companies M and N together = $ (35 + 50) = $ 85 US million
Thus, there was neither loss nor profit for companies M and N together.
Hence, option D is correct.

2.   Total income of all five companies = $ (35 + 50 + 40 + 40 + 50) US million = $ 215 US million
Total expenditure of all five companies = $ (45 + 40 + 45 + 30 + 45) US million = $ 205 US million

$\therefore$ Profit % = $\dfrac{215 - 205}{205}$ × 100 = 4.88% ≈ 5%

Hence, option A is correct.

3.   For Q
= $\dfrac{40 - 30}{30}$ × 100

= 33.33% i.e. 33.3% profit

Hence, option D is correct.

4.   Let the expenditure of 2010 be x. then,
120% ≡ 45
100% ≡ x
By the cross multiplication, we get

x = $\dfrac{45 \times 100}{120} = \dfrac{75}{2}$ = 37.5

Let company income I with 10% profit. Then,
100% ≡ 37.5
110% ≡ I

By the cross multiplication, we get
I = $\dfrac{37.5 \times 110}{100}$ = 41.25
Hence, option D is correct.

5.   Let the income of 2010 be x, then

110% ≡ 40

100% ≡ x

By the cross multiplication, we get
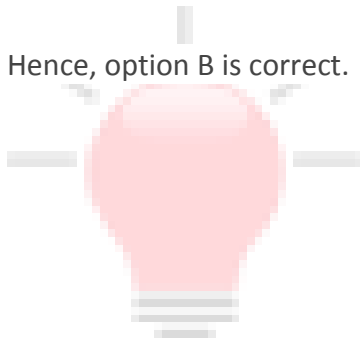
$x = \dfrac{40 \times 100}{110} = \dfrac{400}{11} = 36.36$

Now, company earned 20% profit on 36.36

So, 120% ≡ 36.36

100% ≡ x

$x = \dfrac{36.36 \times 100}{120} = 30.30$

Hence, option B is correct.