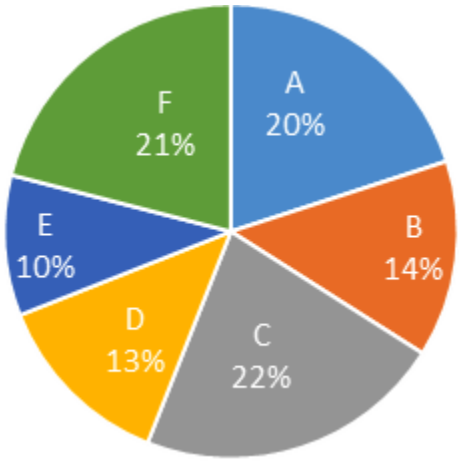
Date Interpretation Mixed Chart Questions Quiz for Bank PO Pre and Clerk Mains Exams.

Data Interpretation Mixed Chart Quiz 20

Direction: Study the following pie chart and table chart carefully and answer the questions based on it.

There are six companies, namely A, B, C, D, E and F, which produce two models (M1 and M2) of an item. The given pie-chart shows the percentage distribution of total production cost while making the mentioned items by the given six companies and the table shows the ratio of production of M1 to that of M2 and the percentage of profit earned on these items. (Total production cost of the six companies is Rs. 3.2 crore.)



Company	Ratio of production		% profit earned	
	M_1	M_2	$\%P_{M1}$	$\%P_{M2}$
A	13	7	25%	32%
B	9	5	28%	30%
C	6	5	20%	24%
D	6	7	35%	25%
E	2	3	24%	21%
F	11	10	30%	20%

1. What is the total profit earned by Company A on model M1 (in Rs. crore)?

A. 0.124 B. 0.112 C. 0.104 D. 0.140 E. 0.122

2. What is the total profit earned by Company B and Company C together on model M2 (in Rs. crore)

A. 0.1248 B. 0.1284 C. 0.1288 D. 0.1244 E. None of these

3. What is the ratio of the cost of production of model M1 of Company D to that of model M2 of Company F?

A. 4 : 5 B. 3 : 5 C. 5 : 7 D. 4 : 7 E. 1 : 2

4. What is the difference between the profit earned by Company C on model M1 and the profit earned by Company E on model M2? (in Rs. crore)

A. 0.72768 B. 0.74268 C. 0.73428 D. 0.77258 E. None of these

5. The percentage profit earned by Company B on model M1 is what percentage of the percentage profit earned by Company D on model M2.

A. 144% B. 156% C. 133% D. Data inadequate E. None of these

Correct Answers:

1	2	3	4	5
C	A	B	E	A

Explanations:

1.

$A_{M1} = 3.2 \times \frac{20}{100} \times \frac{13}{20} \times \frac{25}{100} = 0.104$ crore

Hence, option (C) is correct.

2.

$B_{M2} = 3.2 \times \frac{14}{100} \times \frac{5}{14} \times \frac{30}{100} = 0.048$

$C_{M2} = 3.2 \times \frac{22}{100} \times \frac{5}{11} \times \frac{24}{100} = 0.0768$

$\therefore$ Sum = 0.048 + 0.0768 = 0.1248

Hence, option (A) is correct.

3.

$(\text{Production} - M_1) = 3.2 \times \frac{13}{100} \times \frac{6}{13} = \frac{3.2 \times 6}{100}$

$(\text{Production} - M_2) = 3.2 \times \frac{21}{100} \times \frac{10}{21} = \frac{3.2 \times 10}{100}$

$\therefore$ Ratio $= \frac{6}{10} = \frac{3}{5}$

Hence, option (B) is correct.

4.

$C_{M1} = 3.2 \times \frac{22}{100} \times \frac{6}{11} \times \frac{20}{100} = 0.0768$ crore

$E_{M2} = 3.2 \times \frac{10}{100} \times \frac{3}{5} \times \frac{21}{100} = 0.04032$ crore

$\therefore$ Diff $= 0.0768 - 0.04032 = 0.03648$

Hence, option (E) is correct.

5. The percentage profit earned by Company B on model M_1

$= 28\%$ of $\frac{9}{14}$ of 14% of total production cost

The percentage profit earned by Company D on model M_2

$= 25\%$ of $\frac{7}{13}$ of 13% of total production cost

$\therefore$ Reqd. $\% = \frac{28\% \text{ of } \frac{9}{14} \text{ of } 14\% \text{ of total production cost}}{25\% \text{ of } \frac{7}{13} \text{ of } 13\% \text{ of total production cost}} \times 100$

$= \frac{28 \times 9}{25 \times 7} \times 100 = 144\%$

Hence, option (A) is correct.