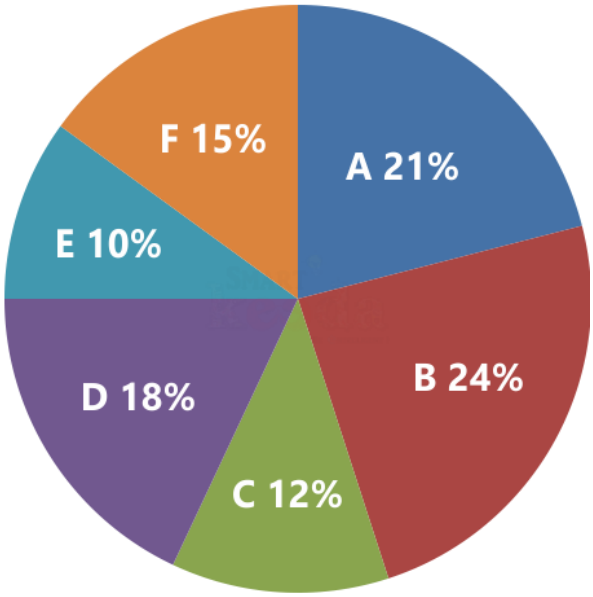
# Date Interpretation Mixed Chart Questions Quiz for SBI PO Mains and IBPS PO Mains Exams.

## Data Interpretation Mixed Chart Quiz 9

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

There are six companies which produce a particular item in two models $M_1$ and $M_2$. These companies produce 5 lakh items. The given pie-chart shows the percentage distribution of the total items produced and the table shows the ratio of model $M_1$ to $M_2$ produced by these companies and their percentage sale.




**(5 lakh items)**

| Company | Ratio $M_1 : M_2$ | % sale $M_1$ | % Sale $M_2$ |
|---|---|---|---|
| A | 4 : 3 | 48% | 45% |
| B | 3 : 5 | 60% | 54% |
| C | 2 : 1 | 75% | 65% |
| D | 4 : 5 | 55% | 70% |
| E | 3 : 2 | 50% | 60% |
| F | 8 : 7 | 45% | 65% |

**1. What is the total number of model $M_2$ items sold by Company A?**

A. 19750 B. 20250 C. 21450 D. 22500 E. None of these

**2. If Company C sells model $M_2$ items sold by Company A?**

A. Rs. 11.25 lakh B. Rs. 12.45 lakh C. Rs. 13.75 lakh D. Rs. 14.95 lakh E. None of these

**3. The total number of model $M_2$ items sold by Company E is what percent of the total number of model $M_1$ items sold by Company C?**

A. 30% B. 35% C. 40% D. 45% E. 50%

**4. What is the difference between the total number of model $M_2$ items sold by Company F and the total number of model $M_1$ items sold by Company D?**

A. 750 B. 800 C. 850 D. 900 E. 950

**5. What is the total number of unsold items of model $M_1$ and $M_2$ of Company B?**

A. 50000 B. 52500 C. 55000 D. 57500 E. 60000

**Correct Answers:**

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| B | D | C | A | B |



## Explanations:

**1.**

Total number of model $M_2$ items sold by Company A

$$= 500000 \times \frac{21}{100} \times \frac{3}{7} \times \frac{45}{100} = 20250$$

Hence, option B is correct.

**2.** Total number of model $M_2$ items sold by Company C

$$= 500000 \times \frac{12}{100} \times \frac{1}{3} \times \frac{65}{100} = 13000$$

∴ Total earning = 13000 × 115 = ₹ 14.95 lakh

Hence, option D is correct.

**3.** Total number of model $M_2$ items sold by Company E

$= 500000 \times \frac{10}{100} \times \frac{2}{5} \times \frac{60}{100} = 12000$

Total number of model $M_1$ items sold by Company C

$= 500000 \times \frac{12}{100} \times \frac{2}{3} \times \frac{75}{100} = 30000$

$\therefore$ Reqd. $\% = \frac{12000}{30000} \times 100 = 40\%$

Hence, option C is correct.

---

**4.** Total number of model $M_2$ items sold by Company F

$= 500000 \times \frac{15}{100} \times \frac{7}{15} \times \frac{65}{100} = 22750$

Total number of model $M_1$ items sold by Company D

$= 500000 \times \frac{18}{100} \times \frac{4}{9} \times \frac{55}{100} = 22000$

$\therefore$ Difference = 22750 – 22000 = 750.

Hence, option A is correct.



---

**5.** Total number of model $M_1$ items produced by Company B

$= 500000 \times \frac{24}{100} \times \frac{3}{8} = 45000$

Total number of model $M_1$ items unsold by Company B $= 45000 \times \frac{40}{100} = 18000$

Total number of model $M_2$ items produce by Company B $= 500000 \times \frac{24}{100} \times \frac{5}{8} = 75000$

Total number of model $M_2$ items unsold by Company B $= 75000 \times \frac{46}{100} = 34500$

$\therefore$ Total unsold ($M_1 + M_2$) items = 18000 + 34500 = 52500

Hence, option B is correct.