

Data Interpretation Notes

Tables | Pie Charts | Bar Graphs | Line Graphs

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Topics:

1. DI Introduction & Strategy
 2. Important Formulas
 3. Solved Table Example
 4. MCQ Practice
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1. Data Interpretation — Introduction

DI involves reading and analyzing data presented in tables, bar charts, pie charts, line graphs, and mixed graphs. Speed and accuracy are key. Always read the question first, then find only required data.

Q. How to approach a Table DI?

Ans: Step 1: Read the table heading and column/row labels. Step 2: Read all questions. Step 3: Extract only required values. Step 4: Calculate — use approximation when answer options are far apart.

Q. How to approach Pie Chart DI?

Ans: Convert % to actual values using total. E.g., if total = 600 and sector = 30%, value = 180. Find ratio of sectors by dividing their %.

Q. Approximation tip for DI?

Ans: Round off numbers: $497 \approx 500$, $198 \approx 200$. For % calculations: $33.3\% \approx 1/3$, $16.6\% \approx 1/6$, $12.5\% = 1/8$, $37.5\% = 3/8$

2. Important Formulas for DI

Q. % change formula?

Ans: % change = $[(\text{New Value} - \text{Old Value})/\text{Old Value}] \times 100$. Positive = increase, Negative = decrease

Q. Ratio to percentage?

Ans: If ratio is a:b, then $a/(a+b) \times 100$ for first part, $b/(a+b) \times 100$ for second part

Q. Average formula?

Ans: Average = Sum of all values / Number of values. Weighted Average = $(w_1x_1 + w_2x_2 + \dots)/(w_1+w_2+\dots)$

3. Solved Example — Table DI

Company Sales Data (in Crore Rs):

Year	Product A	Product B	Total
2020	120	80	200
2021	150	100	250
2022	180	120	300
2023	200	150	350

Q. % growth in Total Sales from 2020 to 2023?

Ans: $(350-200)/200 \times 100 = 150/200 \times 100 = 75\%$

Q. Ratio of Product A to Product B in 2022?

Ans: $180:120 = 3:2$

4. MCQ Practice

Q. If sales were 200 in Jan and 250 in Feb, % increase is:

- (a) 20%
- (b) 25%
- (c) 30%

(d) 15%

Answer: (b) 25%

Q. In a pie chart, if a sector is 72 degrees, its % share is:

(a) 20%

(b) 25%

(c) 30%

(d) 18%

Answer: (a) 20%

Q. Average of 5, 10, 15, 20, 25:

(a) 13

(b) 14

(c) 15

(d) 16

Answer: (c) 15