



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &

Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech.IT)

COIMBATORE-641 035, TAMIL NADU

DEPARTMENT OF MATHEMATICS



UNI II - QUANTITATIVE ABILITY II DATA INTERPRETATION - BAR CHART & PIE CHART

Problem 1: Bar Chart Comparison

A bar chart displays the number of students enrolled in different courses at a university:

Course	Students Enrolled
Mathematics	150
Physics	200
Chemistry	175
Biology	225

Find the difference in the number of students enrolled between the most popular and least popular courses.

Solution:

- i) Most popular: Biology with 225 students
- ii) Least popular: Mathematics with 150 students
- iii) Calculate the difference:

$$\text{Difference} = 225 - 150$$

$$\text{Difference} = 75$$

So, the difference in the number of students enrolled between the most popular and least popular courses is 75.

Problem 2: Bar Chart Analysis

A bar chart shows the number of units sold by a company over four months:

Month	Units Sold
June	500
July	600
August	700
September	800



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Calculate the total units sold over these four months.

Solution:

Total Units Sold = $500 + 600 + 700 + 800$

Total Units Sold = 2600

So, the total units sold over these four months is 2,600.

Problem 3: Pie Chart Distribution

A pie chart shows the market share of four companies A, B, C, and D in a specific industry:

iv) Company A: 40%

v) Company B: 25%

vi) Company C: 20%

vii) Company D: 15%

If the total market size is \$500,000, calculate the market share for Company

C.Solution:

To find the market share for Company C, calculate 20% of the total market size:

Company C Market Share = 20% times 500,000

Company C Market Share = 0.20 times 500,000

Company C Market Share = 100,000

So, the market share for Company C is \$100,000.

Problem 4: Pie Chart Calculation

A pie chart shows the budget allocation of a company in different departments:

viii) Marketing: 25%

ix) Operations: 30%



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- R&D: 20%

- HR: 15%

x) Administration: 10%

If the total budget is \$1.2 million, calculate the budget allocated to the Operations department.

Solution:

To find the budget for Operations, calculate 30% of the total budget:

Operations Budget = 30% times 1,200,000

Operations Budget = 0.30 times 1,200,000

Operations Budget = 360,000

So, the budget allocated to the Operations department is \$360,000.

Problem 5: Bar Chart and Pie Chart Combination

A bar chart shows the revenue (in thousands) for four products in a company for a quarter:

Product	Revenue (Thousands)
P1	200
P2	150
P3	100
P4	50

A pie chart represents the percentage of total revenue contributed by each product. Calculate the percentage contribution of Product P1.

Solution:

First, find the total revenue:

Total Revenue = 200 + 150 + 100 + 50 Total

Revenue = 500 thousand

Calculate the percentage contribution of Product P1:

Percentage for P1 = $(200/500) \times 100$



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Percentage for P1 = 0.40 times 100

Percentage for P1 = 40%

So, the percentage contribution of Product P1 is 40%.