Statistics Practical Works

Paper

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Part I First Paper

Chapter 1

Chapter

1.1 Construction of Frequency Distribution

1.1.1 Problem

The following information represent amount of rainfall in 30 districts in Bangladesh.

 $360\ 442\ 452\ 438\ 449\ 387\ 383\ 348\ 315\ 347\ 308\ 313\ 494\ 477\ 413$ $335\ 495\ 420\ 424\ 396\ 322\ 398\ 327\ 349\ 316\ 488\ 496\ 443\ 337\ 460$

Make a frequency distribution from the data and interpret.

1.1.2 Solution

1.1.3 Theory

To make a frequency distribution, we require three things.

- i. Range, R = Highest Value Lowest value
- ii. Number of class, $k = 1 + 3.322 log_{10}N$
- iii. Class Interval, $CI = \frac{R}{L}$

1.2 Determination of Arithmetic Mean, Combined Arithmetic Mean, Geometric Mean, Harmonic Mean from Grouped and Ungrouped Data.

1.2.1 Problem

1. Heights (in cm) of 10 students in a class are given below:

169, 172, 159, 165, 164, 170, 172, 175, 180, 150

Find AM, GM, and HM.

2. Income of 100 individuals are collected (in thousand BDT)

Income Level	10-20	20-30	30-50	50-80	80-120
Frequency	35	24	20	16	5

Find AM, GM, and HM.

1.2.2 Solution

Theory

Formula.

Type	Grouped	Ungrouped
AM		
GM		
HM		

 ${\bf Equipment/Tools}$

Computation

Construction

Interpretation

Precaution

Conclusion

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