Statistics Practical

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Contents

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

Construction of Histogram and Ogive

Problem

Given below are daily wages of 30 workers in an agency.

515, 833, 938, 511, 960, 968, 542, 842, 767, 694, 674, 955, 675, 972, 501, 987, 708, 846, 568, 721, 592, 867, 644, 966, 663, 551, 746, 942, 760, 601

Draw a Histogram and an Ogive from the data and interpret.

Solution

Theory

A histogram is constructed from a frequency distribution with continuous class intervals. The frequencies corresponding to different classes are shown on the axis as bars, leaving no space or gap between the bars.

Determination of Quartiles, Deciles, and Percentiles

Solution of Different Types of Problems Using Histogram and Ogive

Determination of First Four Moments from Data

Determination of Skewness and Kurtosis and Their Types

Construction of Box & Whisker Plot and Five Numbers Summary And Analysis of Their Properties

Determination of General Trend of Time Series and Prediction