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B.A Part 03 Paper – 07 Topic - Introduction to Mean and Calculation by Direct Method Date – 14/01/2022

ARITHMETIC MEAN OR MEAN

The Arithmetic Mean is the most widely used and the most generally understood of all averages.

For this reason when the term "Mean" is used alone, it almost refers to the Arithmetic Mean.

The arithmetic mean in statistics, is nothing but the ratio of all observations to the total number of observations in a data set.

Arithmetic mean is often referred to as the mean or arithmetic average. Arithmetic mean is calculated by adding all the numbers in a given data set and then dividing it by the total number of items within that set.

The Calculation of the mean is a straightforward operation. The individual observations are added up and the total thus obtained is divided by the number of observations.

The arithmetic mean for evenly distributed numbers is equal to the middle most number.

Methods of Calculating Mean

Direct Method:

- 1. In this method we add all the sums (values) of the variables.
- Divide the sum of the values (∑X) by the number of items(N) symbolically.



Example on Direct method:

Q1.) The Monthly Expenditure (in Rs.) of five Men are given below

132, 144 ,140 , 136 and 148

Find out the simple arithmetic mean.

Solution :- Calculation of Simple Arithmetic Mean:

Numbers	Monthly Expenditure
1	132
2	144
3	140
4	136
5	148
n = 5	∑x = 700

Here total observations (n = 5)

∑x = 700 Mean = ∑x / n = 700/5 = 140

Therefore mean here is Rs. 140