

# Use of English in Statistical Average

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## Abstract

We all know that the statistical average is understood as the central value of data. The average figure represents the entire group. Average is situated within the range of a group of data. This average is called the statistical average. English language makes easy and possible to understand and express the statistical average. All the formulae for calculating the statistical average are written in the English language which has been developed by using the English alphabet at universal level. No other language is used for writing these formulae. Hence, the role of English language in the area of statistical average cannot be ignored in any circumstance.

**Key Words: English Language, Statistical Average, Statistical Formulae.**

## Introduction

The statistical average is understood as the central value of data. The average figure represents the entire group. Average is situated within the range of a group of data. This average is called the statistical average.

According to Ya-Lun-Chau, "An average is a typical value in the sense that it is sometimes employed to represent all the individual values in a series or of a variable."

According to Clark, "Average is an attempt to find one single figure to describe whole of the figures."

## Design of the Study

This study includes three main sections in the paper. First section describes the meaning of statistical average. Second section includes the conceptual framework of the paper. Third part of the study presents the conclusion of after the discussion.

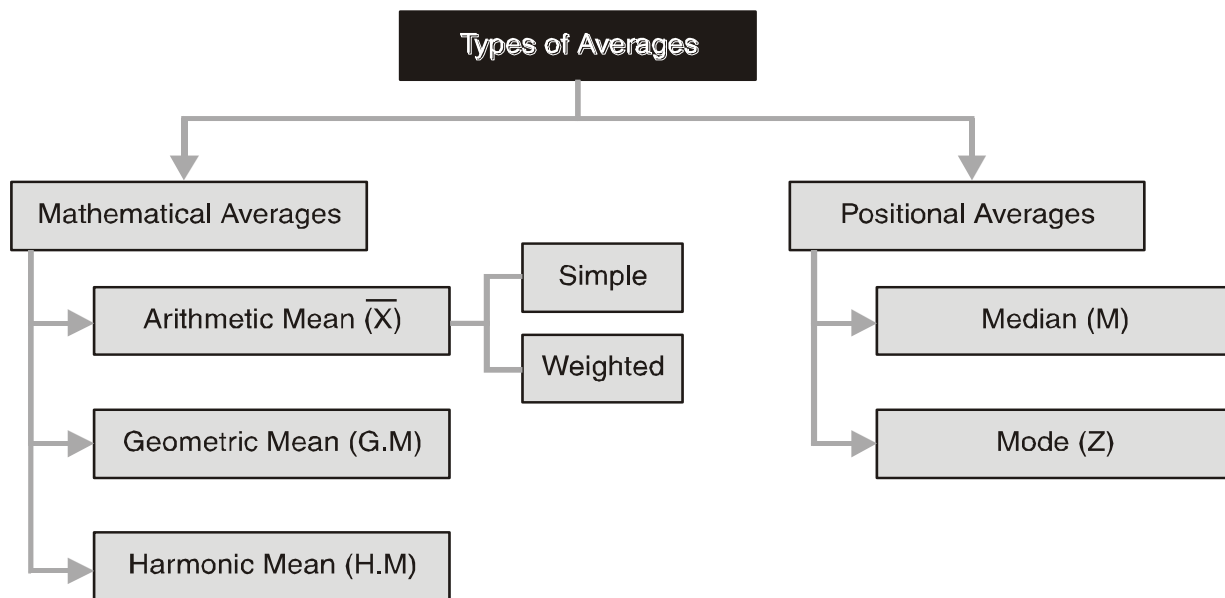
### Conceptual Framework

An average is the central value in a group of data. A good average should have following essentials:

- **Well-defined:** Statistical average should be defined precisely because it represents the whole data. Average should be biasless in every term.
- **Based on all items:** Average should be based on all the items of series. If some items are not included while calculating the average then the results will be misleading.
- **Simple Meaning:** An average should be able to understand. It should be calculated by adopting easy method.
- **Not be affected by extreme values:** An average is that figure which represents all the items of a group of data hence it should not be affected by the extreme values of the data.
- **It should have Algebraic Treatment:** An average should be capable of algebraic treatment. The mathematical treatment will increase its utility.
- **There Should Be Sampling Stability:** If various samples are selected out of a given population then the average of each sample should represent the same value.

Now, let us discuss that how the use of English language makes easy and possible to understand and express the statistical average.

Averages can be classified as follows:



The arithmetic mean is calculated by using following formula:

$$\text{Arithmetic mean } (\bar{X}) = \frac{X_1 + X_2 + X_3 \dots + X_n}{N} = \frac{\Sigma X}{N}$$

where,

$\bar{X}$  = Mean

$\Sigma X$  = Sum of all the values of X variable

N = Number of all the observations.

All other formulae are also calculated by using the similar formulae which have been developed by using the English alphabet at universal level. No other language is used for writing these formulae.

The presentation of statistical average is also made by using the alphabets of English language.

Let us consider the following example:

Following are the marks obtained by 10 students in a class test:

10	18	25	30	36	40	46	50	60	75
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Calculate the arithmetic mean.

**Solution**

Let the marks obtained be denoted by X.

Students	Marks Obtained (X)
1	10
2	18
3	25
4	30
5	36
6	40
7	46
8	50
9	60
10	75
<b>N = 10</b>	<b><math>\Sigma X = 390</math></b>

$$\bar{X} = \frac{\Sigma X}{N}$$

$$\therefore \bar{X} = \frac{390}{10} = 39$$

Hence, the arithmetic mean is 39.

### **Discussion**

The formulae for calculating the statistical averages have been developed by the statisticians in English. We have come to know that the symbols of these formulae are not possible in any other language. Hence, the statistical average is not possible without the English language.

### **References**

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