

AN INVESTIGATION ON EFFECT OF BIAS ON DETERMINATION OF SAMPLE SIZE ON THE BASIS OF DATA RELATED TO THE STUDENTS OF SCHOOLS OF GUWAHATI

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ABSTRACT

Survey studies are related to the inferences about a population characteristic under study. The sample size determination is the act of choosing the number of observations or replicates to include in a statistical sample. The sample size is an important feature of any empirical study in which the goal is to make inference about a population from a sample. If a sample is not true representative of the target population then it may lead to unreliable conclusions. So the determination of proper sample size using appropriate technique of sampling is vital in this type of studies. In this context, it is very much necessary to have an idea on the effect of bias on determination of sample size. Bias is the difference between population parameter and its estimated value. In the present paper a study on the appropriate method of sampling to gain maximum efficiency along with the effect of bias on the accuracy of an estimate is observed. The study is done on the basis of the students of different types of schools of Guwahati.

KEYWORDS: Methods of Sampling, Sample Size, Bias