



Calculo del tamaño de muestra para la estimación de una varianza en poblaciones finitas con funciones en R. [

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Analítica

The estimation of a finite population is a very relevant topic in the context of education assessment. However in the statistical literature there is no available a generalized methodology that allows to compute the minimum sample size needed to guarantee accurate variance estimates. This paper provides the approximation for the H ajek estimator of the population variance by means of Taylor linearization. We also find proper expressions for the computation of the minimum sample size required to punctually estimate this parameter of interest along with testing statistical hyphotesis. Besides that, we present some computational functions programmed in the R software in order to easily compute propor sample sizes

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