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EFFECT OF SAMPLE SIZE (BY REPEATING THE DATA) ON FACTORIAL CONSTRUCTION OF MEASUREMENT TOOLS

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ABSTRACT

In the study, the purpose was to find out the effect of sample size (by repeating the data) on the number of factors opting from exploratory factor analysis and on the cumulative proportion of the total factors. The statistical comparative method was used in the study. The sample of the study consisted of 100 secondary school teachers of Western Uttar Pradesh (India), which was selected by employing random sampling technique. 'School Climate Scale' developed by (Gupta, 2014) was used in the study to collect the data. The findings of the study revealed that: (1) there was no effect of sample size (by repeating the data) on the number of factors opting from exploratory factor analysis. (2) Cumulative proportion of the total factors was not affected by the sample size (by repeating the data).

KEYWORDS: Factor Analysis, Exploratory Factor Analysis