

**COMPARISON OF DETECTION OF INAPPROPRIATENESS INDEX
BASED ON GENDER AND SCOPE OF MATERIAL IN THE INSTRUMENTS
MEASURING MATHEMATICAL COMPREHENSION**

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ABSTRACT

The purpose of this study is to compare the comparison of the inappropriateness index of scores by using the Jacob and Donlon Fisher method on high school math comprehension ability test on class XII Science. The method adopted in this study is quantitative comparative. The subjects were participants' test scores, while the test participants are survey respondents. The population in this study are the scores of all test-takers on class XII in Public High schools in Karawang. The samples in this study are 400 scores of class XII IPA students. Samples determination was performed using random sampling and based on gender. Data collection techniques utilized in this study is instruments of Mathematical Comprehension with the scope of Algebra and Geometry materials compiled by the researchers themselves. The data are analyzed by using Z test for different inappropriate test scores proportion of male and female learners on the inappropriateness index of the score under the Jacob and Donlon-Fisher method on an instrument that measures the ability of mathematical comprehension. The results showed that there are significant differences in the proportion of inappropriateness index. Donlon-Fisher method is more sensitive than the Jacob method in detecting the inappropriateness in scores so that the results obtained are more accurate.

Key words: Inappropriateness Index, Jacob method, Donlon-Fisher method, Gender, Algebra and Geometry