

Title : THE EFFECTS OF SCORING METHODS ON TEST SCORES
RELIABILITY AND VALIDITY OF TEST

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The purpose of this research was to study the effects of scoring methods including Traditional Scoring Method and Optimal Scoring Weight be Ability of Examinee (Θ) Parameter Method, on test scoring, reliability and validity coefficients. The research instrument was Mathematics Achievement Test on Equalization in Mathayom Suksa 2. The sample group was 1,905 Mathayom Suksa 2 students in Phitsanulok in 1998 academic year. The multi-stage sampling was employed.

Data obtained were analyzed through Pearson Product Moment Correlation. Cronbach's Alpha Coefficient was used to determine the coefficients of test reliability. Correlation Coefficients was performed to find the correlation between Mathematics scores in Mathayom Suksa 1 and test scores.

The findings of this research were as follows :

1. The correlation coefficients of the two scoring methods was .907, significant at .01 level.
2. The reliability coefficients of the tests determined by the Traditional Scoring Method and Optimal Scoring Weight be Ability of Examinee (Θ) Parameter Method were .756 and .955, respectively, significant at .01 level.
3. The validity coefficients of the tests determined by the Traditional Scoring Method and Optimal Scoring Weight be Ability of Examinee (Θ) Parameter Method were .640 and .668, respectively, no significant.