

PANIT SRINGAM : A COMPARISON OF THE QUANTITIES OF CRITERION
REFERENCED TEST OF CUT-OFF SCORE WITH THE APPLICATION OF RASCH
MODEL, GLASS'S DECISION THEORETIC APPROACHES AND COUNTING BACKWARD)
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Ph.D. 112 pp.

The main purpose of this study was to compare the validity and reliability coefficients of a criterion referenced test resulted from different cut-off score techniques, namely an application of Rasch model, Glass's decision theoretic approaches and the counting backward. The used were 17 teachers of science and 380 mathayom-suksa 2 students and a set of a questionnaire and a 66-item criterion referenced test in science were used as the instruments. the data were collected from the teachers, a pretest and a post-test. The major finding can be summarized as follows :

1. The counting backward yields the highest cut-off score, the application of Rasch model yields the second highest and the Glass's decision theoretic approaches yields the lowest.

2. When tested by a Fisher-Z test, the reliability coefficients resulted from the 3 mentioned techniques are non-significantly different ($p = .05$).

3. When tested by a Fisher-Z test, the validity coefficients resulted from the 3 mentioned techniques are significantly different ($p = .01$).