

Evaluating the Applicability of Mathematics Performance Standards with a Competence Indicator System

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Abstract

The purpose of this study is to evaluate the Taiwanese students' performance in math, specifically in regard to number/quantity and algebra. In order to complete the study the researchers used the Delphi method to set the performance standards. The process of setting performance standards consisted of three stages. Stage 1, the preparatory stage, where as in essential background information about the exam which the participants required to take was provided by 15 experts. Stage 2 was the modified stage, those experts modified their evaluations according to the students' performance test. In stage 3, the final stage, the results of the evaluations were analyzed by the experts. The three separate evaluations demonstrated that the stage-one competence indicator was correlated with existing data we collected from our participants. In contrast, the result of the stage-two competence indicator did not correlate so closely with the performance standard.

Keywords: performance standard setting procedure, Delphi method, mathematical performance standards

