Applying the Rasch Model in the Validation of a Test of Metalinguistic Knowledge

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Abstract

The purpose of the current study was to examine the construct validity and unidimensionality of a test of first language metalinguistic knowledge. A ten-item multiple-choice test of Japanese metalinguistic terminology was designed and administered to 100 Japanese university students. The results of a Rasch analysis indicated that the calibrated item estimates were sufficiently accurate and precise—all of the items exhibited good fit with the Rasch model. Implications for test revision focused on the possibility of revising some items and increasing the number of items to provide fuller construct coverage and higher reliability and separation estimates.