

ZMATH 2006a.00396

Lee, Kang Sup; Kim, Kyou Sang

An analysis of assessment item on the fraction computation ability for fifth grade student.

J. Korean Soc. Math. Educ., Ser. C, Educ. Prim. Sch. Math. 8, No. 2, 60-68 (2004).

The purpose of this study is to develop and analyze the assessment items which can be used in evaluation of the fraction computation ability for fifth grade students. The item development team consists of three elementary school teachers and three mathematics education expert. The developed items was analyzed item analysis after applying to 135 fifth grade students. As a results of item analysis, it shows meaningful over the level of a standard basis: reliability: 0.80; validity: item 1(1.05), item 2(1.10), item 3(.85), item 4(.90), item 5(1.08); item difficulty: item 1(-.22), item 2(-.41), item 3(.23), item 4(.40), item 5(-.01); item discrimination: item 1(.73), item 2(.73), item 3(.67), item 4(.51), item 5(.56). This means that the test tool could be useful in the evaluation of the fraction computation ability. (orig.)

Classification: D63 F43

Keywords: fractions; achievement measurement; computational skills; item analysis; assessment; grade 5; primary education; lower secondary