The Characteristics of Mathematics Items for Senior High School Grade in National Examination 2018

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Abstract

The result of National Examination (UN) 2018 shows that the average grade of mathematics for senior high school is the lowest among other subjects tested in UN 2018. Most students assumed that mathematic text was very difficult in UN 2018. Besides, students, parents, and Indonesian Teachers Association considered that mathematic National Examination for Senior High School not suitable with the blueprint issued by BSNP. This study aims to see the comparison between blueprint and the questions, the proportion correct and the comparison between indicator or the competency tested in Mathematics National Examination in 2017 and in 2018. This study uses quantitative data from National Examination result from 2017 to 2018. Analysis result in descriptive shows that the tested questions in UN 2018 has complied with UN 2018 blueprint issued by BSNP. The most proficiency tested in UN 2018 was same as those tested in UN 2017 (as much 67.5% for IPA Mathematic and 75% for IPS Mathematic). Nonetheless, the average score of UN in 2018 is lower than in 2017 as much 4.94 point for IPA Mathematic and as much 5.37 point for IPS Mathematic. The proficiency which is still not mastered by students for National Examination mathematic is questions for Level 1 (Knowing and Understanding ) like logarithmic (Mathematic for science) and codomain of function (Mathematic for social science). The difficulty level for Mathematic for science is 36.54% and for Mathematic for social science is 30.77%. Teachers should have a good understanding of blueprint, learning strategy improvement and material reinforcement for students.

Full Text:
PDF

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Chinese senior secondary schools view mathematics education as a key component of secondary education. This is partly because math is a required subject in the National College Entrance Exam (NCEE), or gaokao ( ), the highly competitive national college admissions examination, and also because excellence in mathematics broadens student choices in other STEM majors, which potentially lead to better job prospects. Senior secondary education in China comprises three years of schooling from Grade 10 to 12, and follows nine years of compulsory primary and junior secondary education. Grade 10 (Junior High School). All students in the grade level in both public and private schools. Grade 10 NAT examination should be taken by whoever will take the examination to go to Senior High School. Taken for purposes of readiness assessment. Grade 12 (Senior High School Completers, called NAT12. Graduating public and private senior high school students of the Grade 12 level, administered in the summer. Taken for purposes of systems evaluation; not a prerequisite for graduation or college enrollment[2]. Structure[edit]. The NAT is a standardized multiple-choice test that consists of several competencies with "moderately difficult items" based on Bloom's Taxonomy of Cognitive Objectives/Dimensions. [3]. Test. Senior Secondary School: Admission to Senior Secondary School is competitive: fewer than 13,000 students can be admitted into the 734 secondary schools. The vast majority of Rwandan students attend public boarding schools, many of which are highly competitive; there are also private secondary schools in the country. Students must take a national Secondary Education Advance Level exam to graduate. Fewer than 1000 independent students take a different national exam to receive a high school diploma each year. In order to receive a high school leaving certificate, a student must achieve at least three subsidiary level passes. However, admission to most higher education programs in Rwanda requires passes in at least two subjects with a minimum grade of “C”.