

ABSTRAK

Fuji Nur'Oktapiana, 1182050037. "Penggunaan *Rasch Model* Dalam Menganalisis Soal Evaluasi Pada Penilaian Akhir Tahun (PAT) Mata Pelajaran Matematika"

Kualitas pendidikan di Indonesia masih perlu diperbaiki dan ditingkatkan, salah satu upaya peningkatannya dengan melakukan evaluasi pada butir soal dan lembar jawaban siswa. Sehingga peneliti melakukan penelitian ini dengan tujuan untuk : (1) mengklasifikasi lembar soal PAT berdasarkan Taksonomi Bloom; (2) menghitung persentase pada butir soal dan jawaban benar berdasarkan Taksonomi Bloom; dan (3) menganalisis butir soal PAT berdasarkan *Rasch model* berbantu aplikasi Winsteps. Penelitian ini merupakan penelitian kualitatif dengan metode deskriptif. Data diperoleh melalui metode dokumentasi berupa 35 butir soal Penilaian Akhir Tahun (PAT) mata pelajaran matematika dan 277 lembar jawaban siswa kelas VIII SMP Al-Aqsha tahun ajaran 2021/2022. Hasil penelitian menunjukkan bahwa : (1) terdapat 11 butir soal level kognitif rendah (LOTS), 16 butir soal level kognitif sedang (MOTS), dan 8 butir soal level kognitif tinggi (HOTS); (2) persentase butir soal menghasilkan 31% soal level rendah (LOTS), 46% soal level sedang (MOTS), dan 23% soal level kognitif tinggi (HOTS) dengan banyaknya persentase jawaban benar pada butir soal adalah 51,5% pada soal level kognitif rendah (LOTS), 42% siswa pada soal level kognitif sedang (MOTS), dan 35% siswa pada level kognitif tinggi (HOTS); dan (3) hasil analisis menggunakan *Rasch model* diperoleh 31 dari 35 soal sudah valid dengan 4 sisanya perlu dilakukan revisi, reliabilitasnya termasuk kategori cukup dengan nilai sebesar alpha 0,72, memiliki tingkat kesukaran soal yang cukup beragam, daya pembeda soal sudah baik, dan efektifitas pengecohnya telah 100% berfungsi.

Kata Kunci : Butir Soal PAT, Lembar Jawaban Siswa, Taksonomi Bloom, Rasch Model

ABSTRACT

Fuji Nur'Oktapiana, 1182050037. “Use of the Rasch Model in Analyzing Evaluation Questions in the End of Year Assessment (PAT) of Mathematics Subjects”

The quality of education in Indonesia still needs to be improved with evaluating on the boutiques and student answer sheets. So this research aims: (1) Clarifying the PAT's sheets based on the Bloom's Taxonomy; (2) Counting percentages on the boutiques and the correct answers based on the Bloom's Taxonomy; and (3) Analyze the PAT's grain based on the Winsteps app. This research is a qualitative research with therapeutic methods. This research is a qualitative research with descriptive methods. The data was obtained through the documentation method in the form of 35 items of End of Year Assessment (PAT) questions for mathematics subjects and 277 answer sheets for grade VIII students of Al-Aqsha Junior High School for the 2021/2022 school year. The results showed that: (1) there were 11 points of low cognitive level questions (LOTS), 16 points of medium cognitive level questions (MOTS), and 8 points of high cognitive level questions (HOTS); (2) Percentage of grains resulting is 31% of LOTS, 46% of MOTS, and 23% of the HOTS with percentages of the correct answers is 51.5% on LOTS, 42% on MOTS, and 35% on HOTS; and (3) Results of analysis using Rasch model obtained 31 of 35 will have been valid with 4 remaining needs revisioned, the reliability includes the category is enough with the alpha value of 0.72, have a sufficiently diverse level of disassembling, the power of the distinguishing is good, and the effectiveness of its refining has 100% function.

Keywords :PAT Question Items, Student Answer Sheets, Bloom's Taxonomy, Rasch Model

