

## ABSTRAK

**Ella Laras Santi, NIM 8186182003, Tesis,**“Pengembangan Tes Kemampuan HOTS Berbasis *Realistic Mathematic Education* (RME) Berbantuan *Google Form* Siswa Kelas IV SD Negeri 101999 Silinda”. Pendidikan Dasar, Pascasarja UNIMED, 2022.

Tujuan penelitian ini adalah untuk mengetahui, mendeskripsikan peningkatan kemampuan HOTS siswa dengan berbantuan *Google Form*, dan menemukan tes kemampuan HOTS yang berkualitas berbasis *Realistic Mathematic Education* (RME) yang berkualitas berbantuan *Google Form* pada materi pecahan. Subyek penelitian ini adalah siswa kelas IV SD tahun ajaran 2021/2022. Pada kelas IV SD Negeri 101999 Silinda sebanyak 30 orang siswa. Penelitian ini menggunakan penelitian pengembangan Borg dan Gall. Teknik pengumpulan data yang digunakan adalah observasi, wawancara dan tes. Dari hasil penelitian dapat disimpulkan bahwa kemampuan HOTS siswa mengalami peningkatan dari hasil uji coba lapangan I hasil yang didapat sebesar 37 berkategori cukup, meningkat pada uji coba lapangan II sebesar 54 berkategori tinggi. Nilai yang didapat sesuai dengan PAP yang telah dirancang. Baiknya sebuah instrument yang dikembangkan dilihat dari hasil validitas, reliabilitas, kepraktisan serta efektivitas. Dari hasil penelitian Tes yang telah dikembangkan dikatakan valid karena hasil yang diperoleh lebih dari 61% yaitu dengan nilai rata-rata sebesar 0,88 dengan persentase 88% dan memiliki reliabilitas sebesar 0,75 dengan interpretasi tinggi, kepraktisan yang didapat sebesar 4,6 berkategori sangat praktis sesuai dengan kriteria yang telah dibuat jika tes yang dibuat berkategori sangat praktis maka artinya tes HOTS Matematika sangat mudah digunakan dan keefektifan sebesar 3,59 yaitu efektif sesuai dengan kriteria yang telah dibuat artinya Tes sangat mampu menghasilkan peningkatan aktivitas, respon dan hasil belajar peserta didik.

**Kata kunci:** Pengembangan Tes Kemampuan HOTS, *Realistic Mathematic Education* (RME)

## ABSTRACT

**Ella Laras Santi, NIM 8186182003, Thesis, “Development of HOTS Capability Test Based realistic mathematic education (RME) assisted Google Form Students Grade IV Elementary School 101999 Silinda”. Basic Education, Unimed Post-Employment, 2022.**

The purpose of this study is to find out, describe the improvement of students' HOTS abilities with Google Form assistance, and find a quality HOTS ability test based on Realistic Mathematic Education (RME) that is quality assisted by Google Form on fractional material. Subyek this research is a grade IV elementary school student for the 2021/2022 school year. In grade IV of SD Negeri 101999 Silinda, there were 30 students. This research used the development research of Borg and Gall. The data collection techniques used are observation, interviews and tests. From the results of the study, it can be concluded that students' HOTS ability has increased from the results of field trial I, the results presented by 37 categories are sufficient, increasing in field trial II by 54 high categories. The value obtained is in accordance with the PAP that has been designed. The good thing is that an instrument developed is seen from the results of validity, reliability, practicality and effectiveness. From the results of the research, the test that has been developed is said to be valid because the results obtained are more than 61%, namely with an average score of 0.88 with a percentage of 88% and have a reliability of 0.75 with high interpretation, the practicality obtained by 4.6 categories is very practical according to the criteria that have been made if the test made thanks to theory is very practical, it means that the HOTS Mathematics test is very easy to use and the effectiveness of 3.59 is effective according to with the criteria that have been made, it means that the test is very capable of producing an increase in student activity, response and learning outcomes.

**Keywords:** HOTS Capability Test Development, *Realistic Mathematic Education* (RME)