

## ABSTRAK

**WAWAN MISWANTO.** Pengembangan Tes *Higher Order Thinking Skills* Materi Bangun Ruang Berbasis Pembelajaran Matematika Realistik pada Kelas V SD di Kecamatan Tanjung Pura . Program Studi Pendidikan Dasar Pascasarjana Universitas Negeri Medan, Desember 2022.

Penelitian ini bertujuan untuk: menghasilkan tes *HOTS* materi bangun ruang yang valid, efektif dan praktis untuk digunakan di kelas V sekolah dasar. Penelitian ini merupakan penelitian pengembangan tipe *formative evaluation* Tessmer yang telah diadaptasi yang terdiri dari dua tahap yaitu; (1) tahap *preliminary*, dan (2) tahap *formative evaluation* yang meliputi *self-evaluation* dan *prototyping*. Hasil penelitian menunjukkan bahwa telah berhasil dikembangkan tes *HOTS* materi bangun ruang berbasis pembelajaran matematika realistik yang berkualitas dari aspek validitas, keefektifan dan kepraktisan sebanyak 15 soal yang terdiri dari 11 soal pilihan ganda dan 4 soal uraian. Koefisien validitas tes sebesar 0,69 (validitas tinggi) dan koefisien reliabilitas tes sebesar 0,81 (reliabilitas sangat tinggi). Efektif berdasarkan pencapaian tujuan pembelajaran mencapai 80%, ketuntasan klasikal 88%, respon positif siswa 85% dan waktu pembelajaran yang efisien. Praktis berdasarkan penilaian ahli yang menyatakan soal layak dan dapat digunakan dan, tanggapan guru memperoleh skor rata-rata 88,89% (praktis).

Kata kunci: Tes *HOTS*, *Formative Evaluation*, Kualitas Tes



## ABSTRACT

**WAWAN MISWANTO.** The Development Of Higher Order Thinking Skills Test Of Geometry Based On Realistic Mathematics Education For Fifth Grade Elementary School At Tanjung Pura. Postgraduate Basic Education Study Program, State University of Medan, December 2022.

This study aims to: produce a HOTS test of geometry that is valid, effective and practical to use in fifth grade elementary school. This research is a development research of Tessmer's formative evaluation type which has been adapted which consists of two stages, namely; (1) preliminary stage, and (2) formative evaluation stage which includes self-evaluation and prototyping. The results showed that the HOTS test of geometry based on realistic mathematics education that had quality from the aspects of validity, effectiveness and practicality had 15 questions consisting of 11 multiple choice questions and 4 essay questions. The test validity coefficient is 0.69 (high validity) and the test reliability coefficient is 0.81 (very high reliability). Effective based on the achievement of learning objectives reaches 80%, 88% classical completeness, 85% positive response from students and efficient learning time. Practically based on the assessment of experts who stated that the questions were feasible and could be used and, the teacher's response obtained an average score of 88.89% (practical).

Keywords: HOTS Test, Formative Evaluation, Test Quality

