

**PENGEMBANGAN TES NUMERASI GURU (TUGU) UNTUK
MENGUKUR KEMAMPUAN NUMERASI GURU SD DENGAN
KONTEKS LINGKUNGAN SEKOLAH**

Oleh

I Gede Suprawata, NIM 1811031150

Jurusan Pendidikan Dasar

ABSTRAK

Kemampuan numerasi generasi muda sangat bergantung pada kemampuan numerasi yang dimiliki oleh guru di sekolah, terutama guru SD. Oleh karena itu, kemampuan numerasi guru SD perlu diperiksa untuk memastikan kualitas pembelajaran numerasi di sekolah. Sayangnya data numerasi guru belum tersedia di sekolah, karena ketiadaan instrumen pengukuran numerasi guru. Upaya untuk menjawab permasalahan tersebut adalah melalui pengembangan instrumen Tes Numerasi Guru (TUGU). Instrumen TUGU dikembangkan dengan model pengembangan 4D yang terdiri dari *define* (pendefinisian), *design* (perancangan), *develop* (pengembangan), dan *disseminate* (penyebaran). Pada tahap *define*, dilaksanakan analisis kebutuhan dilaksanakan dengan penyebaran angket yang melibatkan 10 orang guru di SDN 3 Bedulu. Pada tahap *design*, dilaksanakan penyusunan kisi-kisi, butir soal, kunci jawaban, dan teknik penskoran. Pada tahap *develop*, dilaksanakan *expert appraisal* dan *developmental testing*. Pada tahap *disseminate*, dilakukan melalui artikel ilmiah yang diunggah pada jurnal. Data analisis kebutuhan dianalisis secara deskriptif kuantitatif. Hasil uji validitas isi dihitung dengan menggunakan indeks V Aiken. Hasil respon guru dianalisis secara deskriptif kuantitatif. Pada uji validitas butir dianalisis menggunakan korelasi produk momen, reliabilitas instrumen dianalisis dengan *Alpha Cronbach*, daya pembeda dan tingkat kesukaran soal dianalisis dengan rumus yang sesuai. Hasil pengujian validitas isi menunjukkan indeks validitas yang tinggi, yaitu sebesar 0,89. Respon guru mendapatkan respon sangat baik, dengan rata-rata skor sebesar 4,58. Pada uji validitas empiris, instrumen TUGU memperoleh koefisien validitas tiap butir melebihi 0,227 sehingga soal dinyatakan valid. Pada uji reliabilitas diperoleh nilai sebesar 0,819 dengan kategori tinggi. Pada uji daya pembeda diperoleh nilai lebih dari 0,30 dengan kategori baik. Tingkat kesukaran yang diperoleh persentase sebesar 53% mudah, 33% sedang, dan 13% mudah. Rekomendasi disajikan dalam penelitian ini.

Kata-kata kunci: Numerasi, Instrumen, Tes, TUGU

**THE DEVELOPMENT OF TEACHERS' NUMERATION TEST (TUGU)
TO MEASURE THE NUMERATION ABILITY OF SD TEACHERS WITH
THE CONTEXT OF THE SCHOOL ENVIRONMENT**

By

I Gede Suprawata, NIM 1811031150

Department of Basic Education

ABSTRACT

The numeracy ability of the younger generation is very dependent on the numeracy skills possessed by teachers in schools, especially elementary school teachers. Therefore, the numeracy skills of elementary school teachers need to be checked to ensure the quality of numeracy learning in schools. Unfortunately, teacher numeracy data is not yet available in schools, due to the absence of an instrument for measuring teacher numeracy. An effort to answer these problems is through the development of the Teacher Numeration Test (TUGU) instrument. The TUGU instrument was developed using a 4D development model consisting of define, design, develop, and disseminate. In the define stage, a needs analysis was carried out by distributing questionnaires involving 10 teachers at SDN 3 Bedulu. At the design, the preparation of grids, questions, answer keys, and scoring techniques is carried out. In the development stage and are carried out expert appraisal developmental testing. In the disseminate stage, it is done through scientific articles uploaded to journals. Needs analysis data were analyzed descriptively quantitatively. The results of the content validity test were calculated using the V Aiken index. The results of the teacher's response were analyzed descriptively quantitatively. In the item validity test, it was analyzed using the moment product correlation, the instrument reliability was analyzed by Alpha Cronbach, the discriminatory power and the level of difficulty of the questions were analyzed using the appropriate formula. The results of the content validity test show a high validity index, which is 0.89. The teacher's response got a very good response, with an average score of 4.58. In the empirical validity test, the TUGU instrument obtained a validity coefficient of each item exceeding 0.227 so that the questions were declared valid. In the reliability test obtained a value of 0.819 with a high category. In the discriminatory power test, a value of more than 0.30 was obtained in the good category. The level of difficulty obtained is 53% easy, 33% moderate, and 13% easy. Recommendations are presented in this study.

Keywords: Numeration, Instrument, Test, TUGU