

Profile of Computational Thinking Ability of Elementary School Teachers in Yogyakarta City in Solving Numeracy Problems

by Irfan Wahyu Prananto, Yoppy Wahyu Purnomo, fery Muhamad Firdaus, Rahayu Condro Murti, Dwi Yuniarifi

ABSTRACT

Computational thinking ability is a critical thinking ability today for solving problems. These thinking abilities include understanding problem-solving, reasoning at the level of abstraction, and developing automatic problem-solving. This research aims to describe the profile of teachers' computational thinking abilities concerning solving numeracy problems in elementary schools. This research uses a mixed method approach, where researchers try to describe teachers' computational thinking abilities based on the numeracy tests they take. The sample for this research is elementary school teachers under the auspices of the Yogyakarta City Education, Youth, and Sports Department. Data collection techniques use tests and interviews. The results of the numeracy test will be analyzed based on the computational thinking ability framework. In this research, it was found that teachers' understanding of basic mathematical concepts is a crucial element in numeracy and computational thinking skills. Teachers with a strong understanding of mathematical concepts tend to be more effective in teaching the material. The dominant components of computational thinking in solving numeracy problems are abstraction and algorithms.

Kata Kunci: Thinking Ability, Computational Thinking, Numeracy, Teacher