

EDUCATION GAME SNAKE AND LADDER ON MATHEMATICS SUBJECT FOR STUDENTS GRADE V OF ELEMENTARY SCHOOL

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ABSTRACT

This research has purpose to develop learning media educational game snakes and ladders on the mathematics subject of elementary school grade V with operations of integers. Learning by educational games is learning with real act so making abstracts concept of mathematics subject are given more contextual and can settle to the student's memory. This game be expected can improve student's motivation to learn mathematics subject with operations of integers and help students to learn independently.

The research can be catagorized as Research and Development method which consisted of 8 stages, the stage of requirements analysis, collection the design object media, develop the initial product, expert validation, revision of the design, testing, revision and production. The game is developed using Macromedia Flash 8. The educational game tested with white box testing and black box testing. Appropriateness this game assessed by media expert teams, materials expert team and student. The experiment was done in SD N 2 Wijirejo which involving 40 students grade V of elementary school. The method used in data collection is by questionnaire likert scale.

White box testing results indicate that the node has been executed at least once and be done in accordance with the limitations. The results of testing with black box testing method shows each key force had function matching with its purpose. The results of expert assessment of the media or alpha testing mean scored is 4.02 in good category. The mean value of results of expert assessment of the material or alpha testing is 4.07 in good category. First product testing or beta testing mean scored is 4.2 in good category. The last product testing or beta testing get the mean scored 4.16 in good category. The test results showed that the overall of educational game snakes and ladders on the mathematics subject grade V of elementary school is proper or good to use.

Key words: Educational Game, Snakes and Ladders, Elementary School's
Mathematic