

ABSTRACT

Euis Ayisari (125050088). ***“Application of Metacognition in Learning Mathematical Approach to Enhance Critical Thinking Skills Mathematical Junior High School Students”***. Thesis Mathematics Education Faculty of Teaching and Education University of Pasundan, 2016

Mathematically critical thinking skills of students is one of the student's ability to be developed during and after the learning process. This is because through critical thinking mathematical students may think reasonable (reasonably), deep (reflective), accountable, and intelligent thinking (skillful thinking) that is focused on the conclusion whether the thought was credible or workable. One to improve students' critical thinking skills is to approach mathematical metacognitive. This study aims to determine the critical thinking skills students gain mathematical learning metacognitive approach is better than getting conventional learning and to determine the students' positive attitude towards learning approaches in mathematics learning metacognitive. This study used an experimental method. The study population was all students of class VII Junior High School 36 Bandung and samples taken as many as two classes of class VII G and VII H. Critical thinking skills mathematical indicators used in this study: 1). Give a simple explanation (focusing questions), 2). Build basic skills (considering credibility), 3). Make a conclusion (to do and consider the value of the decision), 4). Make further clarification (to identify and consider the definition of the term), 5). Set the strategy and tactics (formulate an action). Instruments used in this research is to test students' critical thinking skills mathematical and questionnaire scale of students' attitudes to learning using a metacognitive approach. Based on the analysis of research data using SPSS version 23.0 for Windows, that the critical thinking skills students use mathematical metacognitive approach is better than students who use conventional learning. based on a questionnaire given to the experimental class, the students obtained information that a positive attitude towards learning with metacognitive approach. Therefore, learning to use the metacognitive approach can be an alternative in implementing the learning of mathematics.

Keywords: *Metacognitive approach, Critical Thinking Mathematically*