

ABSTRAK

Yuni Indriyanti Hermawan "**Application of Learning Brain Based Learning Model to Mathematical Communication Ability Junior High Eighth Grade Students**". Thesis Mathematics Education Faculty of Teaching and Education University of Pasundan, 2016.

Mathematical communication ability of students is one of the student's ability to be developed during and after the learning process. This is because through mathematical communication students can organize mathematical thinking orally and tulisan. Salah one to improve communication skills with the students' mathematical learning model Brain Based Learning. This study aims to determine students' mathematical communication skills are getting the learning model Brain Based Learning better than students who received conventional learning models, and to identify students with a positive attitude towards learning model Brain Based Learning in mathematics. This study used an experimental method. The study population was all students in grade VIII SMP Pandu Bandung and samples taken as many as two classes of class VIII A and VIII B. Indicators matematis communications capabilities used in the study: 1) mengorganisaikan and consolidate mathematical thinking and communicating to other students, 2) express mathematical ideas in a coherent and clear to other students, teachers, and others, 3) improve or expand students' mathematical knowledge by thinking about other students thinking and strategy, 4) using mathematical language appropriately in various mathematical expressions. Instruments used in this research is to test students 'mathematical communication ability and scale questionnaire students' attitudes to learning using learning model Brain Based Learning. Based on the results penelitin data analysis using SPSS version 22.0 for Windows, that mathematical communication skills of students using model Brain Based Learning is better than students who use conventional learning. Based on the questionnaire given to the experimental class, the students obtained information that a positive attitude towards the model pembelajaran Brain Based Learning. Therefore, learning by using learning model Brain Based Learning can be an alternative in implementing the learning of mathematics.

Keywords: Brain Based Learning, Mathematical Communications