ABSTRACT

Viny Pebriani (2019). **The Use of Brain-Based Learning Models of Mathematical Reasoning Ability and Self-confidence in Junior High School Students.**

Mathematics is the most frequently used subject in completing other subjects. In addition, in order to learn mathematics, students need support in every study that is mathematical skills and mathematical attitude. One of the mathematical skills that need to be improved is mathematical reasoning and self-confidence is a mathematical attitude that needs to be possessed so that students get the optimal results of mathematics learning. One of the learning alternatives that can improve mathematical reasoning ability and self-confidence for students is Brain Based Learning. The purpose of this study is 1) to determine whether the enhancement of mathematical reasoning skills of students acquiring Brain Based Learning learning models is better than those who acquire Discovery Learning learning; 2) to find out if self-confidence for students who acquire Brain Based Learning learning models is better than the students who acquire Discovery Learning learning; 3) To find out if there is a coleration between mathematical reasoning ability with self-confidence in students who acquire a Brain Based Learning learning model. The method used in this research is an experimental method with the pretest design of postes. The subject of this study is a grade VII student at SMP Pasundan 3 Bandung. The research instruments used consist of mathematical reasoning ability test instruments that are made in the form of blurting (Pretes-postes) and non-test instruments in the form of self-confidence polls. Data analysis uses paramestic tests on pretes-postes data and Pearson test via SPSS Statistic 17.0 for Windows software. From the results of this study, the following conclusions are obtained: 1) enhanced mathematical reasoning ability of students who acquire Brain Based Learning learning models better than students who acquire Discovery Learning learning; 2) Self-confidence students who acquire the learning model of Brain Based Learning are better than the students who acquire Discovery Learning learning; 3) There is no coleration between mathematical reasoning ability and self-confidence in students who acquire Brain Based Learning learning models.

Keyword: Brain Based Learning, Mathematical Reasoning, Self-confidence.