ABSTRACT

The Influence of the Mind Mapping Method on the GI Model on Mathematical Problem Solving Ability and Mathematics Learning Outcomes of Class VII Students of Mts An-Najah 1 Karduluk Academic Year 2020/2021. 2021. Moh. Muzayyin

Keywords: Mind Mapping, GI Model, Problem Solving Ability and Mathematics Learning Outcomes

Mathematical problem solving ability is the ability of students to solve problem-based problems expressed by scores. Mathematics learning outcomes are scores that have been achieved by students in studying mathematics subjects as measured by using tests. The learning model used in this study is the GI model. The Group Investigation (GI) model is a learning method which is divided into 6 phases, namely 1). Topic selection; 2). Cooperation planning; 3). Implementation; 4). Analysis and synthesis; 5). Presentation of Final Results; 6). Evaluation. While the method used in this study is the Mind Mapping method. The Mind Mapping method is a learning strategy that begins by writing the main idea in the middle of the page and spreads throughout the direction to create a kind of diagram consisting of keywords, phrases, concepts, facts, and pictures.

This study aims to determine the effect of the mind mapping method in the GI model on mathematical problem solving abilities and learning outcomes of class VII MTs students. An-Najah I Karduluk. The population in this study were all students of class VII MTs. An-Najah I for the 2020/2021 Academic Year, totaling 51 students. The sampling technique used is Random Sampling, so the sample of this study was students of class VII-A MTs. An-Najah I, totaling 21 students.

The instrument used in this study was a test, namely in the form of pretest and posttest. Furthermore, the data obtained were tested using the N-Gain test and T-test. the results of testing data on problem-solving abilities and learning outcomes of mathematics using the t-test respectively obtained t_{count} *6,001 and 3,243 with* t_{table} *2,086. It shows that* t_{count} *more thans* t_{table}*. Based on these calculations, it is found that* H_1 *is accepted and* H_0 *is rejected. This means that there is an effect of the Mind Mapping method on the GI model on mathematical problem solving abilities and mathematics learning outcomes for grade VII MTs students. An-Najah 1 Karduluk. Based on the results of the N-Gain calculation on the problem-solving ability data, a score of 0.48 was obtained which was categorized as moderate. While the results of the N-Gain calculation on student learning outcomes data obtained a score of 0.18 which is in the low category.*