ABSTRACT

Deni Awaludin Fajri . The Effects of *Conceptual Understanding Procedures* (CUPs) with Think Talk Write (TTW) Strategy to Problem Solving Ability and Mathematical Disposition of High School Students.

The problem solving is contained in the standards according to Ministry of Education and NCTM. It means that this ability is an important capability that must be developed and owned by students. In Curriculum Education Unit mentioned a problem-solving abilities is the main focus of learning. However, in reality we still meet the students with low mathematical problem solving abilities, maybe this is related to the learning model used by the teacher. One of the alternative model of learning that can improve improve students' mathematical problem solving abilities are *Conceptual Understanding Procedures* (CUPs) learning model with the *Think Talk Write* (TTW) strategy . This study aims to: 1) To know whether students' mathematical problem solving abilities who are learning to use the CUPs learning model with a TTW strategy is better than the student learning to use conventional learning , 2) to find out whether the mathematical disposition of students acquiring the learning model n CUPs with TTW strategies are better than students who have received conventional learning . 3) To find out whether there is a correlation between mathematical disposition with students' mathematical problem solving skills using CUPs learning model with TTW strategy. Based on the method of research is a quasi-experimental research and design of pretest-posttest control group. The population in this study were students of class X SMAN 1 Rancaekek academic year 2017/2018 . The sample of the research is the students of class X Mia-1 and X Mia-3 selected randomly by class. The instruments used in this study are test and attitude scale. The test used is a test type description of the problem solving ability problems and the attitude scale of mathematical disposition using Likert scale. The test and scale of mathematical disposition were first tested in grade XI SMAN 1 Rancaekek . The tests were tested first, based on the results of the trials, all questions worthy of research . Based on data analysis and research results, we concluded that: 1) the solving mathematical problems students who obtain a model of learning with CUPS with the TTW strategy better than students who gain learning mathematics with conventional learning, 2) mathematical disposition students who get the model of learning CUPs with TTW strategy better than students who obtain conventional learning . 3) there is no correlation between mathematical disposition and problem-solving abilities.

Keywords: *Conceptual Understanding Procedures* (CUPS) Model, *Think Talk Write* Strategy, Troubleshooting Ability and Mathematical Disposition .