THE IMPLEMENTATION OF TEAM ASSISTED INDIVIDUALIZATION (TAI) LEARNING MODEL TO INCREASE STUDENT'S MATHEMATICAL PROBLEM SOLVING ABILITY ON THE TOPIC OF DISTANCE IN 3D-SPACE IN X GRADE OF SMAN 8 MEDAN

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The aim of this research is to improve or increase student's mathematical problem solving ability through the implementation of cooperative learning Team Assisted Individualization model on the topic of Distance in 3D-Space which is conducted to tenth-graders of SMAN 8 Medan especially for class X-1 as the subject of this research.

The type of this research is classroom action research. The instrument used to collect the data are essay test and observation sheet. Before given the action in intial test to 42 students, obtained the average score is 54,67 with the classical completeness is 33,33% or only 14 students achieve the completeness criteria. The completeness criteria is the standard point that must be reached by students namely at least 65 and classical completeness is the standart percentage that must be reached by the class namely at least 85%. After given the action in first cycle to 42 students, obtained the average score is 64,76 with the classical completeness 52,38% or 22 students achieve the completeness criteria. And also after given the same action as the first cycle namely the action in second cycle, obtaine the average score is 77,48 with the classical completeness 88,10% or 37 students achieve the completeness criteria. Based on the observation done by teacher obtained that the point of second cycle is higher than the point of first cycle, and also based on the average gain score between Initial Test – Cycle I Test and Cycle I Test – Cycle II Test obtained that the average gain score in Cycle I Test – Cycle II Test is higher than Initial Test – Cycle I Test.

From the result of research, it can be concluded that by the implementation of Team Assisted Individualization Learning Model, the mathematical problem solving ability of students can be increased or improved especially on the topic of Distance in 3D-Space.

Keywords

Cooperative Learning, Team Assisted Individualization, Mathematical Problem Solving Ability.