

ABSTRACT

Novelia Finenes Pasaribu (2022). *Improving Critical Thinking Ability and Mathematical Anxiety of Junior High School Students through the Discovery Learning Model Assisted by Video Learning.*

Critical thinking ability is one of the higher order thinking skills needed in 21st century learning. One of the factors that can make critical thinking skills is a mathematical anxiety. Mathematical anxiety is anxiety suffered by students in the face of learning mathematics. One of the learning models that can develop and improve students' critical thinking skills and minimize important things, especially in learning mathematics is the Discovery Learning model. The use of video media in learning can motivate and help students to learn mathematics. The purpose of this study was to determine whether the increase in critical thinking skills of students who received the Discovery Learning model with video-assisted learning was higher than that of students who received conventional learning; Knowing whether the anxiety of students who received the Discovery Learning model assisted by video learning was lower than that of students who received conventional learning; Knowing whether there is a significant relationship between students' critical thinking skills and students' anxiety who get the Discovery Learning model assisted by learning videos. The research method used is quasi-experimental. The sample in this study were students at SMP Nasional Bandung class VII, the sample was selected by purposive sampling technique. The results of this study are 1) The mathematical critical thinking ability of students who received the Discovery Learning learning model assisted by video learning was higher than the mathematical critical thinking ability of students who received the conventional learning model; 2) The learning anxiety of students who received the Discovery Learning learning model assisted by learning videos was lower than the critical thinking skills of students who received the conventional learning model 3) There was an insignificant negative relationship between critical thinking skills and students who received the Discovery learning model. .

Keywords: *mathematical critical thinking skills, mathematical anxiety, Discovery Learning model, learning videos.*