

**THE INFLUENCE OF STUDENT'S ASSESSMENT OF MACROMEDIA
FLASH AND CLINOMETERS THROUGH STAD TOWARDS
PROBLEM SOLVING ABILITY ON TRIGONOMETRY
RATIO AND FUNCTION IN GRADE X AT SMAN 1
PLUS MATAULI PANDAN ACADEMIC
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ABSTRACT

Research purpose is to find out (1) the relationship between macromedia flash and problem solving ability, (2) the relationship between clinometers and problem solving ability, and (3) the relationship between macromedia flash and clinometers towards problem solving ability.

Research type is used Independent and Dependent Variables of Correlational Design. Macromedia flash and clinometers are independent variables. Otherwise, problem solving ability is dependent variable. There are two methods of measurement they are test (essay test) and non test (questionnaire). Essay test is used to get the data of problem solving ability. Questionnaire is used to get the data of macromedia flash and clinometers.

The research was conducted at SMAN 1 Plus Matauli Pandan. Research population is students in grade X that consisted of 278 persons. Slovin's formula is used to determine the sample size of research. Sample size of research is 73 persons.

The test computation of first hypothesis: $t (1.783) > t_{table} (1.667)$, it conclude that there is a significant positive influence between macromedia flash and problem solving ability. The test computation of second hypothesis: $t (2.075) > t_{table} (1.667)$, it conclude that there is a significant positive influence between clinometers and problem solving ability. The test computation of third hypothesis: $F (2.537) > F_{table} (2.38)$, it can conclude that there is a significant positive influence between macromedia flash and clinometers towards problem solving ability.

Macromedia flash can make influence towards problem solving ability as 4.3%, otherwise clinometers can make influence towards problem solving ability as 5.7%. Macromedia flash and clinometers can make influence towards problem solving ability together as 6.8%. There are another factors than can make influence towards problem solving ability which is not included in the research.

Keyword: Macromedia Flash, Clinometers, Problem Solving Ability