

**Development of Student Activity Sheet (SAS) Characterized by Realistic  
Mathematics Education (RME) for Algebraic Form at VIII Grade in  
SMP Negeri 1 Medan Academic Year 2012/2013**

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**ABSTRACT**

The objectives of this research is producing the good and valid Student Activity Sheet (SAS) that characterized by Realistic Mathematics Education (RME) for algebraic form subject and know the description of response students to students worksheets in grade VIII SMP Negeri 1 Medan.

The type of research is development research which taken in 2 phase. The first phase is called Front-End Analysis phase. It is used to analyze and determine the basic competence for mathematics that the students satisfied by considering Kurikulum Satuan Pendidikan (KTSP) in 2006 for VIII grade of Junior High School in material algebraic form and also to validated the Student Activity Sheet (SAS) that characterized by Realistic Mathematics Education (RME) for algebraic form. The second phase is called Formative Analysis phase. It is used to analysis of the learning process by teachers and students to see the student's response of Student Activity Sheet (SAS).

The research has done in SMP Negeri 1 Medan. The subject of this research The subject in this research is the students at VIII grade SMP Negeri 1 Medan at odd semester, Academic Year 2012/2013 with the number of students are 23 students, consisting of 8 students are boys and 15 are girls and the object of research is the improving of learning achievement by using the Student Activity Sheet (SAS) characterized Realistic Mathematics Education (RME) that applied in the at VIII SMP Negeri 1 Medan.

The results of the research are; (1) Based on the expert validation, the Student Activity Sheet (SAS) that is compiled by the researcher has validation 86,11 %. It means that the result of validation is in the interval 81% – 100 % that state it is very feasible.(2) The activity of the students that is classified in to four aspects, they are interest, attention, participation and presentation. They are increase in every learning from first meeting until the last meeting in learning process. (3) The response of the students to the learning process that use the Students Activity Sheet characterized by Realistic Mathematics Education is positive or 90.3%.(4) The classical average of students learning outcome after using the Student Activity Sheet that characterized by RME is 79.52 %. It pass the standard minimum of mathematics competence for VIII grade junior high school.

**Keyword: Student Activity Sheet (SAS), Realistic Mathematics Education (RME), Learning Achievement**