

**THE APPLICATION OF REALISTIC MATHEMATICS EDUCATION TO  
IMPROVE MATHEMATICAL PROBLEM SOLVING  
ABILITY IN GRADE XI SMA DHARMA  
PANCASILA MEDAN**

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**ABSTRACT**

The purpose of this study is: To improve students' mathematical problem solving ability and to know how far the improvement of mathematical problem solving ability to use learning approaches *Realistic Mathematics Education* on the subject of Statistics. This type of research is a CAR (Classroom Action Research). The subjects of this study are students of class XI SMA Dharma Pancasila Medan as many as 30 person. The object of this research is to improve the ability of mathematical problem solving with *Realistic Mathematics Education* on subject Statistics Academic Year 2017/2018. Based on the analysis of data obtained after implementation of the action on the 1<sup>st</sup> cycle the average score of students was 71.2% with the number of students who reached the category of minimum value (65) as many as 23 people (76%). On the 2<sup>nd</sup> cycle, obtained the average score of students was 81% with amount of students who reached the category of minimum value (65) increased became 28 people (93%). In the problem solving test I (1<sup>st</sup> cycle) the average score of students increased as 32.77% from the diagnostic tests and on the problem solving skills test II (2<sup>nd</sup> cycle) the average score of students increased as 10% from the problem solving skills test I. Similarly, the level of mastery learning classically increased from the cycle I 76% became 93% in cycle II. Based on observations conducted by the observer, obtained teacher learning management implemented in the 1<sup>st</sup> cycle can be said to include the category good enough (Meeting I score 2.1, Meeting II score of 3.0). In the 2<sup>nd</sup> cycle, the level of the researchers' ability to manage learning categorized was very good (meeting I score of 3.1, meeting II score of 3, 2). Based on the result of the improvement from 1<sup>st</sup> cycle to 2<sup>nd</sup> cycle it can be concluded that the learning approach of Realistic Mathematics Education can improve mathematical problem solving ability on the subject of statistics.