

Application Realistic Mathematics Education (RME) to Improve Mathematics Learning Outcomes on the Subject Quadrilateral in VII Grade SMP Negeri 11 Medan Academic Year 2014/ 2015

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ABSTRACT

The purpose of this study was 1) know how the categories of realistic mathematics education process on the subject quadrilateral? 2) know the increase of mathematics learning outcomes by using realistic mathematics education on the subject quadrilateral in VII grade SMP Negeri 11 Medan academic year 2014/2015? 3) know how the learning activities of realistic mathematics education students when applied on the subject quadrilateral in VII grade of SMP Negeri 11 Medan academic year 2014/2015?

The subjects were students of class VII-4 school year 2014/ 2015, consist of 48 people consisting of 21 boys and 27 girls. The object of this research is the mathematics learning outcomes, student activities and realistic mathematics education (RME).

This study consisted of two cycles, the first cycle consists of two meetings and the second cycle consists of two meetings. Mathematics learning outcomes tested at the ending meeting and the observation of students was observed in the learning process takes place.

In the action on the first cycle obtained that category realistic learning process on quadrilateral included either. It is seen from an average of 2.6 observations and the second cycle gained an average of observations is 2.9.

In the action on the first cycle by applying realistic mathematics education data showed the average percentage achievement active activity ideal time of

63.6875%, aspects of student activity number 2 and 3 are achieved while other aspects are not achieved. Once given the action on the second cycle of data obtained an average percentage 75.01125% into aspects of student activity number 1, 2, 3, and 4 are also achieved. An increase in the percentage of achievement active activity ideal time for 11.32375% of the first cycle based criteria ideal time to learn the lesson of this activity has reached the target and increased.

Of action I, through the provision of a test result of learning I gained 37 students (77,083%) of the 48 students have achieved mastery learning (value ≥ 65), while 11 students (21.875%) was not finished. After the second action, by providing test results of the second study obtained 45 students (93.75%) of the 48 students who have completed. increase in the percentage of 16,667% classical completeness. Based on the criteria, then the percentage of completeness classical completeness is compliant.

Based on the descriptions above concluded that increased of student learning outcomes with the model quadrilateral on realistic mathematics education in grade VII SMP N 11 Medan academic year 2014/ 2015 .