

CHAPTER V

CONCLUSION AND SUGGESTION

5.1. Conclusion

Based on the results of research and discussion obtained the following conclusions:

1. The implementation of problem based learning model can improve students mathematical problem solving ability in SMP Negeri 30 Medan class VIII-6 Academic Year 2016/2017
2. There are improving of students mathematical problem solving ability after implementation of Problem Based Learning Model. It is determined based on test result in cycle I and cycle II, average score of cycle I average value of 58,92 and improved in the second cycle into 76.75.
3. There are improving of students mathematical communication ability after implementation of Problem Based Learning Model. It is determined based on test result in cycle I and cycle II, average score of cycle I average value of 56,38 and improved in the second cycle into 75.69 and In the cycle I the number of students who complete the mathematical problem solving ability is 36.67% (11 students) and the cycle II improved to 90.00% (27 students). and in cycle I the number of students who complete the mathematical communication ability is 36,67% (11 students) and cycle II is 86,67% (26 students)

5.2. Suggestion

The suggestion can be taken from the results of this research, such as:

1. Learning mathematics by impelementation Problem Based Learning model can be used as an alternative effective learning to improve students mathematical problem solving ability and students activity. But for the first implementation teacher fell defficult in preparing learning and condition the class. Because Problem Based Learning is firstly giving real problem to the students without explain far explanation of the topic,

students are not accustomed in solve problem will fell boring and lazy to learn. It is therefore recommended for the teacher before do learning process, teacher asks students to prepare learning material at home such as reading the topic which will be learned. So in learning students find difficulty, the can face the trouble by sharing with their group to solve the problem.

2. Problem based learning model can develop critical thinking ability of students because it needs high thinking ability of students to understand the problem and for lazy students, it is difficukt to do it so the teacher must be more guide and observe each group working so that all group member demand to be active in the group.
3. For teacher that the application of problem based learning model to improve students mathematical problem solving and mathematical communication should be applied in learning process, then the teacher must:
 - Able to make problem question which can be used to exercise the students to do problem solving step.
 - Management of time as goog as possible when learning is done.
 - Understanding the phases that must be applied in problem based learning model.
 - Doing small learning groups designed which are heterogenous.
 - Guide and help students to open mind to solve problem.
4. To school, by due process of learning by using problem based learning requires infrastructure to provide the facalities needed to support improvement of learning in order to improve the quality, in this case an effort to improve students mathematical problem solving and mathematical communication ability.
5. For the next researcher, it is expected to use research result as comparison matter and implement problem based learning model in other topics, using attractive book and interesting SAS to make students are more interesting to do learning actively.