

## CHAPTER V

### CONCLUSIONS AND RECOMMENDATIONS

#### 5.1 Conclusion

Based on the research with PjBL model for classroom experiments and the cooperative model for the control class, then from the analysis data, and hypothesis testing concluded as follow :

First, The result was shown that Student creative thinking in project based learning model was greater than cooperative learning models. It proved there were be different in creative thinking of Students through between the Project Based Learning model with KWL Worksheet and Cooperative Learning model to solved problems in Physics.

Second, The result was shown that Student creative thinking in above average DT was greater than under average DT to reach creative thinking of student in learning. It proved there were be different in the creative thinking of Students who have Under Average and Above Average category in Divergent Thinking to solved Physics problems. From those difference could be seen that the effect of project based learning model with KWL worksheet on creative thinking in solved physics problems.

Third, as generally result was shown that DT wasn't effect Student creative thinking in PjBL model. It proved there were any interaction between the Project Based Learning model with KWL Worksheet and Cooperative Learning model with the divergent thinking level in Student creative thinking to solved problems in Physics.

#### 5.2 Recommendation

Based on the implementation, results, and conclusions of research, researchers suggest for the next researcher who conducted the study with PjBL model with KWL worksheet to subject which has more time in semester to get study and recommended more attention to guiding students for work in groups with active way to ask each student about done in groups so students will be more

motivated to be active in groups to complete tasks with socializing. Beside it, before to start of learning first time described and given examples how the implementation and the results obtained so at the time of execution of students already understand what to do and not take more time for phases other learning.

For next research about PjBL model, The Writer recommended to other Researcher for don't compare or using Divergent thinking to Project Based-Learning models in analysis Student Creative thinking. It caused that implementation PjBL with KWL worksheet had been giving same ways to advance Students divergent thinking. Then, The Writer recommended another variables like as Academic Success Skill, another thinking process, or the others process in Student learning which is advanced.

