

CHAPTER IV

RESULT AND DISCUSSION

This chapter presents the result of the research which is intended to answer the problems of the study that are mentioned in the first chapter. In this chapter will explain students' participations during STAD being applied, students' achievement after STAD being applied and the influence of STAD on students' achievement.

These result and data analysis are arranged based on data from research in VII A class of SMPN 36 Surabaya. This research held on May 20th – 28th 2009. In this study, researcher became a teacher. In order to observed students' participation during the application of STAD, researcher was helped by her friend as an observer.

A. Result

1. Descriptive Data Analysis

Descriptive data analysis is used to analyze the result of observation data; that is students' participation during STAD being applied data. In order to collect data about students' participation during the application of STAD, researcher took sample. Researcher took 9 students randomly from 37 students of VII A class. The 9 students represented different level of academics.

To know clearly those participations, researcher described in this following explanations.

The fourth dominant students' participation is discussing and asking the teacher. It is 19,33%. Students were less asking or discussing with teacher because they had to pay attention to the teacher's explanation.

For irrelevant students' participation is only 20%. Because of in that meeting, the nine observed students tend to pay attention to the teacher and do the task. It can be known when the students do the worksheet with their team mates, discuss or ask their friends, pay attention to the teacher's explanation about the rule. It also can be seen that the students pay attention and listen to their team mates when discussion. However, there are two students who still talk outside the topic. They are also joking outside the topic of discussion.

Based on table 4.1, it can be seen that the average total of relevant students' participation is 80% and irrelevant students' participation is 20%. Because the total average of relevant student participation is 80%, it indicates that students' participation during STAD being applied in the first meeting is active.

In the second meeting, students continue the steps of the first cycle. After doing worksheet in the previous meeting, students did quiz individually to make sure that they had mastered the material. In this step, they were not allowed to help one another as doing work sheet.

After doing the quiz, students within their team mates counted their personal progress score. Then, all of the members' score were calculated.

second meeting, they were more asking the teacher than the first meeting that is 16%. It was because they need more teacher's explanation about how to do scoring based on the result of quiz.

Discussing and asking their friend is the third dominant students' participation which is 19,73%. In that meeting, they needed to analyze their quiz score and progress point. The students' analyzed the score with their team mates. They discussed each other to make a good analyzing. That score was important for team rewarding in the last cycle.

The fourth dominant students' participation is listening and paying attention to the teacher. It has 19,04% participation. They still listen and pay attention to the teacher. It decreases than before. It is caused that they have already know the rule of application of STAD so, it did not need to give more explanation.

For irrelevant students' participation are only 21,08%. There were two students who still talked outside the topic. Sometimes, they also joked each another.

Based on table 4.2, it can be known that the average total of relevant students' participation is 78,9% and irrelevant students' participation is 21,08%. Because the average totals of relevant student participation is 78,9%, it indicates that students' participation during the application of STAD is active enough.

Discussing and asking their friend is the third dominant students' participation which is 17,40%. Because they have already known the rule, the third meeting was one cycle of the application of STAD that consists of both doing worksheet and quiz. In that meeting, they also needed to do a worksheet within their team mates and analyzed their quiz score and progress point. The students' analyzed the score with their team mates. They discussed each other to make a good analyzing. That score was important for team rewarding in the last cycle.

The fourth dominant students' participation is listening and paying attention to the teacher. It has 13,59%. They still listened and paid attention to the teacher. But it decreased than before. It was caused that they more active discuss within their team mates.

For irrelevant students' participation is only 15,76%. There were two students who still talked outside the topic and one student who cheated his friend's work.

Based on table 4.3 it can be seen that the average total of relevant students' participation is 84,24% and irrelevant students' participation is 15,76%. It shows that students' participation during STAD being applied in the third meeting is active.

As what have been explained before, this study consist of two cycles. The first cycle conducted in the first and second meeting, whether the second cycle was conducted in the third cycle.

friends” with average 18,8%. They were not used to ask the teacher when they had not understood the material or the rule. They were still shy to ask to the observer. They preferred to ask to their friends. It is also proved, when they worked in their team works. They discussed each others to make sure that they have mastered the material.

Students’ relevant participation, “Paying attention to the teacher” decreases, from 19,18% to 13,59% with average 16,39%. It is caused STAD is something new for the students. They never applied that before. So, in the first cycle, they paid more attention to the teacher’s explanation.

The first cycle students’ relevant participation, “Discuss or asking with their friends” is higher then the second cycle, from 20,2% to 17,4% with average 18,8% . In the first meeting several observed students still feel shy to ask the teacher because who becomes the teacher is the researcher.

However, it does not mean that there is no one who has bravery to ask the teacher. It is proved from students’ relevant participation, “Discuss or asking with teacher” is 17,87% in the first cycle and 16,3% in the second cycle with average 17,08%. In the second cycle they had already known before. So, the participation, asking the teacher about the rule decreased. But, they still asked the teacher about the material that they did not understand.

Students’ participation, “Understanding and doing the work sheet” increases, that is from 12% to 19,56% with average 15,78%. In the first cycle, there was still a student that cheated another team and talked out side the

topic. But, generally, they tried to do the worksheet as well as they can. In the second cycle, it ran better. They realized that they must do the best for their team.

Students' participation, "Doing the quiz individually" has 10.2% in the first cycle and 17.4% in the second cycle with average 13,8%. In the second cycle, cheating when doing the quiz decreases, because in the first cycle they were not confident with their own answer.

Students' participation, "Talking outside the topic of discussion" is 7,41% in the first cycle and 5,43% in the second cycle with average 6,42%. In the second cycle, the observed students could minimize talking outside the topics, because they had to focus on the discussion.

Students' irrelevant participation, "Cheating" decreases from the first cycle to the second cycle, from 7,08% to 5,43% with average 6,25%. It is because they had realized that they had to do the quiz individually.

Students' irrelevant participation, "Exiting the class without any permission" decreases from the first cycle to the second cycle, from 6,06% to 4,9% with average 5,48%.

Based on table 4.4, it can be known that the average total of relevant students' participation is 81,85% and irrelevant students' participation is 18,15%. The general average of relevant student' participation is higher than the general average of irrelevant student' participation with 81,85%. It shows that students' participation during the application of STAD is active. So, it can

From post-test score data that have been analyzed by using t-test (sample paired t-test), it is proved there is a significance difference between students' achievement before and after the application of STAD. Based on the result of post-test score that has been analyzed by using sample paired t-test, it gets $t_{hitung} = 10,86$ and $t_{tabel} = 2,02$ with significance level 5% or 0,05. It means that $t_{hitung} > t_{tabel}$. So, null hypothesis that is offered that there is no significance influence is rejected. In the other word, cooperative learning type STAD has a significance influence on improving students' achievement.