Using Jigsaw Technique to Identify and Develop Paragraph Elements at The Fourth Semester Students of UKI-Toraja

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ABSTRACT

The objectives of this research are (1) to find out the effects of jigsaw technique on students' ability in writing the paragraph elements at the fourth semester students of UKI-Toraja, (2) to find out whether the students are interested in the teaching of paragraph elements using jigsaw technique. This research employed cluster random sampling technique. It used two groups, one received treatment using Jigsaw Technique and the other group received the conventional way from the Lecturer who taught writing two in that semester. The subjects of this research were two classes, class B (22) as experimental group and class C (22) as control group. The data of this research was collected through writing test and questionnaire. The results of the research revealed that (1) using Jigsaw Technique affects the ability of the fourth semester students of UKI-Toraja in writing the elements of a good paragraph. (2) The interest of class B as experimental group of the fourth semester students of UKI-Toraja in writing the elements of a good paragraph showed a great positive.

Key words: Jigsaw technique; paragraph elements; students ability; Students' interest

A. INTRODUCTION

Writing skill is one of the four skills in English. This skill is essentially needed for the students of UKI-Toraja as the under graduate students. It is hoped that the graduates who are provided to be professional teachers must keep improving their knowledge by doing scientific research, educational research, improving the materials for teaching, etc. Those required needs cannot be achieved without the skill of writing. According to Olson, et, al (2005:157), mastering writing detail is important, but the main purpose of writing is to communicate a message with a specific purpose to an audience. Most writing does one of three things: inform, explain, or present an argument. Writing effectively involves discovering what you want to say, organizing your ideas, and presenting them in the most logical, effective way.

One of the subjects that is taught at UKI-Toraja is writing. Writing is taught in three semesters, from the basic level to more advanced levels. At the 3rd semester, students learn Writing I, in which they are taught how to compose good sentences. Here, they learn about the use of right punctuation, capitalization and kinds of sentences. When they come to the 4th semester, they learn Writing II in which they learn about the steps to compose good paragraph, and Essay Writing is taught at their 5th semester. Paragraph is one of the importent components of writing discussed in Writing II. The Researcher believes that to be able to write kinds of writing of a longer texts. The students needs to be able to write a good paragraph correctly.

According to Zemach & Rumisek (2005:11), a paragraph is a group of sentences about a single topic. Together, the sentences of the paragraph explain the writer's main idea (most important idea) about the topic. In academic writing, a paragraph is often between five and ten sentences long, but it can be longer or shorter, depending on the topic. The first senttence of a paragraph is usually indented (moved in) a few spaces. Furthermore, Zemach & Rumisek (2005:12) give details about the elements of the paragraph, those arethe topic sentence, supporting sentences and concluding sentence.

To be success in learning writing skill, the students need an interest. According to Wintzel and Wigfield (2009:197) *Interest* also represents a possible antecedent of motivation. A relatively unique feature of interest is its strong emphasis on the *content of learning*. Unlike many other motivational constructs, such as motives, needs, self-concepts, or goal-orientations, interest is always related to a *specific* object, activity, or subject area. In his person-object theory of interest, Krapp (2002) described interest as a *relational construct* that consists of a more or less enduring relationship between a person and an object. This relationship is realized by specific activities, which may comprise concrete or hands-on actions and abstract mental operations. Writing skill, has its own attraction that makes the students interested in learning it, even the techniques used by the Lecturer can bring an interest to the students to learn.Apart from the broader aspects of motivation, the interest has its own unique features namely its strong emphasis on the content of learning and the specifick activity. In teaching certain skill and specific aspect of writing. The researcher is engaged to know and to prove whether the students are interested in writing paragraph elements using jigsaw technique or not.

Based on the researcher interview to a lecturer, Siumarlata (April,4th 2015) who teaches writing II, that there were some crucial problems, the students face in writing a good paragraph. The first while he taught writing II, he found that the students were still unable to construct the sentences, to write the topic sentence, to improve the supporting sentences and to write the concluding sentences. The second when he bacame an advisor to 20 students and he examined 30 students on thesis examination in academic year 2014/2015. He found that all the students both his advising students and the students he examined were still unable to write a good paragraph correctly. On the other hand, the researcher also interviewed two students who are still learning writing II in this semester, Seblon and Kuniawan and one students who have passed the subject, Selviani (April,4th 2015). They said that they got difficulties in finding the appropriate ideas (vocabulary), writing sentences, and even they do not know the structure of the paragraph yet. In addition Selviani said, she is difficult to choose topic sentence and to construct paragraph

One technique that can be used in teaching writing skill is Jigsaw technique. According to the article from jigsaw. org (2012), the jigsaw structure promotes positive interdependence and also provides a simple method to ensure individual accountability. First introduced by Aronson, et al. (1978) the basic premise of jigsaw is to divide a problem into sections, one for each group member. Each student receives resources to complete only his/her part. The students who are responsible for the same section join together and form a new, temporary focus group whose purpose is for the students to master the concepts in their section, and to develop a strategy for teaching what they have learned to the other students in their original collaborative learning group.

This method has been proved effective by some researchers in teaching ESL. Maden (2011) proved that, according to the findings relating to the students' views about the Jigsaw I technique obtained at the end of the experimental process, it was seen that most of the students stated that Jigsaw technique increases success, encourages self-confidence, develops cooperation and interaction, makes students more active and encourage them to research.

Based on the problem and the previous study above, the reasearcher conducted research on the effects of jigsaw technique on students' ability in identifying and developing the elements of good paragraph and on the students' interest in writing the paragraph elements. The Researcher was engaged to know the effects of jigsaw technique on students' ability in identifying and developing paragraph elements and to know the students' interest using jigsaw technique in teaching paragraph elements.

B. LITERATURE REVIEW

Pedagogy

Richards and Schamidt (2002:389) defines that in general terms, pedagogy refers to theories of teaching, curriculumn and instruction as well as the ways in which formal teaching and learning in instructional setting such as schools is planned and delivered. In educational theory, Pedagogy is usually devided into *curriculumn, instruction* and *evaluation.* Since language is the essential medium of pedagogy, the role of language in pedagogy is focus of theorizing and research by linguists, applied linguistics, educators, and critical pedagogues. Critical pedagogy seeks to address issues related to the distribution and exercises of power and knowledge in educational settings.

Appoach, Method and Techniques

Richards and Schamidt (2002:29-30) state in language teaching, philosophy and priciples underlying a particular set of teaching practices. Language teaching is sometimes discussed in terms of three related aspects: Approach, method and technique. different theories about the nature of language and how language are learned (the approach) imply different ways of teaching language (the method), and different method make use of different kinds of classroom activity (the technique). Examples of different approaches are the aural-oral approach (audioligual method), the cognitive code approach, the communicative approach, etc. Examples of different methods which are based on particular approach are the audiolingual method, the direct method, etc. Examples of techniques used in particular methods are drills, dialogues, role plays, sentence completion, etc.

Jigsaw Technique

Aronson (2007) states that the jigsaw strategy places great emphasis on cooperation and shared responsibility within groups. The success of each group depends on the participation of each individual in completing their task. This means the Jigsaw strategy effectively increases the involvement of each student in the activity

Slavin in Huda (2011) adopts and midifies jigsaw technique that is developed by Aronson to become Jigsaw II. He argues that every group is competing to get the group reward. This reward is received based on the performance of each member of the group. Each group will get the additional point if each of the member is able to increase the his performance when he is assigned to do the quiz.

The technique of the implementation is nearly the same as Jigsaw I. First, every group is given the same information. Then, each group points out one of the group members that is considered as the expert to join another group, namely, expert group. In this expert group every member discussess to understand more detail about that information. After that they come back their home group to teach the more specific topics from that information to their friends in their home group. This teaching is needed so that both themself and their friends of their group can be ready to face the next individual test. After that, every member of the group is examined individually with the quiz. The score that is received by each of the member from the result of the quiz will determine the score that will be received by their group.

Concept of Writing

According to Merriam-webster.com, writing is the act or process of one who writes, the act or art of forming visible letters or characters; *specifically*, and the act or practice of literary or musical composition.

Harmer (2011:10) defines writing is a productive skill which involves though and emotion. It is a medium of communication. Writing cannot be mastered at one but it needs practice. The practice may include imitating or copying words and sentences from the giving ideas or expressing free ideas based on the writers' knowledge, experience and point of view.

Paragraph

Zemach & Rumisek (2005) define that a paragraph is a group of sentences about a single topic. Together, the sentences of the paragraph explain the writer's main idea (most important idea) about the topic. I academic writing, a paragraph is often between five and ten sentences long, but it can be longer or shorter, depending on the topic. The first senttence of a paragraph is usually indented (moved in) a few spaces

Parts (elements) of Paragrah

Furthermore, Zemach & Rumisek (2005) give details about the elements of the paragraph as follows:

The topic sentence

This is the main idea of the paragraph. It is usually the first senttence of the paragraph, and it is the most general sentence of the paragraph.

The Supporting sentences

These are sentences that talk about or explain about the topic sentence. they are more detailed ideas that follow the topic sentence.

The concluding sentence

This may be found as the last sentence of a pparagraph. it can finis a paragraph by repeating the main idea or just giving a final comment about the topic.

Interest

In everyday language, "interest" and "motivation" are oft en used synonymously. This mirrors the history of the concept of interest. Long before the term "motivation" became prevalent in psychology and education, many motivational phenomena have been dealt with under the label of "interest" (cf. Hidi et al., 2004). Therefore, it is important to start by clearly distinguishing these terms. *Motivation* is commonly understood as the state of wanting to perform a specific activity in a given situation (e.g., Schunk et al., 2008; Wigfield, Eccles, Schiefele, Roeser, & Davis-Kean, 2006). The determinants of the strength of a specific, current motivation have been identified by various approaches, including the expectancy-value theories of motivation (e.g., expectancy of success) and self-efficacy theory. In addition, the process of forming a specific motivation is influenced by enduring motivational characteristics of the person, such as motives or goal orientations.

Interest also represents a possible antecedent of motivation. A relatively unique feature of interest is its strong emphasis on the *content of learning*. Unlike many other motivational constructs, such as motives, needs, self-concepts, or goal-orientations, interest is always related to a *specific* object, activity, or subject area.

C. METHOD

In this research, the researcher used the nonequivalent control group design. It used two groups, one received the treatment using jigsaw technique and the other group received general method which was done by the Lecturer who taught writing II in that semester. Both of groups were given pretest and posttest. The pretest was done to find out the prior knowledge of students while posttest was done to find out the influence of using Jigsaw Technique in teaching English writing. The design was formulated as follows:

EG	O1	X	O2
CG	O1		O2

Research design (adapted from Sugiyono2013:79)

Where:

EG = experimental group

CG = control group

O1 = pre test

O2 = post test

X = treatment with jigsaw technique

This research consisted of two variables, namely dependent variable and independent variable. The research had one independent variable and two dependent variables. The tree variables were; the independent variable was jigsaw technique. It was used to facilitate students to improve their ability and cmprehension to write the elements of a good paragraph. the dependent variables of this research were the students' ability in writing the elements of a good paragraph and the students' interest in using jigsaw technique in learning.

The population of this research was the fourth semester students of UKI Toraja, South Sulawesi in academic year 2014/2015. These students had taken Writing I as the pre-requisite subject to take writing II. The total number of the classes were nine namely, clas; A-I. Each class consists of different number of students. The population was 322 students.

The sample was selected by using cluster random sampling technique. The writer took two classes. Class B and Class D. Both classes took the subject of writing II, where they were taught how to construct a good paragraph. They were taught by another Lecturer using traditional technique. Class B was chosen as the experimental class where it consisted 22 students. Class D was the control class. It consisted 25 students. So, the total number of the sample is 45 students.

D. RESULT

To collect the data, the research used pre-test and post-test. There were two kinds of test, objective test in the form of identification test and productive test, in the form of writing test. These test aimed at collecting data of students' ability in writing a good paragraph of both classes, experimental and control class. The questionnaire was intended to get information of the students' interest toward the use of jigsaw technique in writing the elements of a good paragraph.

The Ability of the Students in Identifying the Elements of a Good Paragaph.

The students ability in identifying the topic sentence (TS), supporting sentence (SS), and concluding sentence (CS) for pre-test and post test of experimental and control group was described identification test. If a students identified one of the elements correctly, he/she would get score one (1/3*100) but if he/she answered incorrectly, he/she would get zero and if a student answer the three elements correctly he/she will get three (3/3*100). The result of the test was described in the table below:

The persentage comparison of pre-test and post-test based on the elements of paragraph

Group	Pre-test		%	Post-Test		%
Control	TS	22	100	TS	22	100
	SS	22	100	SS	22	100
	CS	18	81.81	CS	19	86.36
Experimental	TS	22	100	TS	22	100
	SS	22	100	SS	22	100
	CS	20	90.90	CS	22	100

Based on the data above, it can be seen that from the three elements of a paragraph, in the pre-test of control group, there were 4 (81.81%) students who failed to coplete the identification test, especially in identifying concluding sentence. In the experimental group, there were 2 (90.90%) students who failed to complete the identification test, especially in identifying concluding sentence.

In the post-test, of control group, there were 3 (86.36%) students who failed to identify the concluding sentence. In the experimental class, all the students in the group completed the identification test. So, they copleted the identification test 100 percent.

From the analysis above, it can be conluded that using jigsaw techinque can improve the students' ability to identify the elements of a good paragraph

The ability of the students in writing

The Percentage of Students' Writing Ability for Pre-test in Experimental and Control Group.

Students' score of pre-test were classified into seven classifications namely excellent, very good, good, fairly good, fair, poor, and very poor. The frequency and the rate percentage of the students' score of pre-test in Experimental and control classes are presented in the following:

The Rate Percentage and Frequency of Students' Score of Pre-Test in Experimental and Control Class

Classification	Score	Experimental class		Control class	
		Frequency	Percentage	Frequency	Percentage

Classification	Score				
Excellent	96-100	0	0	0	0
Very good	86-95	0	0	0	0
Good	76-85	6	27,27	5	22,72
Fairly Good	66-75	5	22,72	3	13,63
Fair	56-65	6	27,27	13	59,09
Poor	46-55	5	22,72	1	4,54
Very poor	0-36	0	0	0	0
Total		22	100	22	100

Based on the data shown above the result of the pre-test both of group was none (0%) of students got excellent and very good. The result of the students' score in experimental class was six (27,27%) students got good, five (22,72%) students got fairly good, six (27,27%) students got fair, and five (22,72%) students got poor, and there was none of students who got very poor.

In control class, the students' score was 5 (22.72%) students got good, three (13,63%) students got fairly good, thirteen (59,09%) students got fair, one (4,54%) students got poor, and there was none of students who got very poor.

The Mean Score of pre-test of Experimental and Control Group in Five Components of Writing

Components of Writing	Mean score		Difference
	Experimental	Control	
Content	20.09	18.64	1,45
Organization	14.27	13.91	0,36
Vocabulary	13.59	14.32	-0,42
Language use	14.27	15.55	-1,28
Mechanic	3.23	3.05	0,18
Total	65.45	65.47	-0.02

Based on data above, the mean score of vocabulary, and language use in control group were higher than in experimental group. On the other hand, content, organization and mechanics in experimental were higher than in control group. The mean score of overall the five components of writing shown the negative difference on -0,02 point which meant that the control group was higher than experimental group although it was not really significant.

The Percentage of Students' Writing Achievement of Post-test in Experimental and Control Group.

The Rate Percentage and Frequency of Students' Score of Post-Test in Experimental and Control Class

Classification	Score	Experimental class	Control class

		Frequency	Percentage	Frequency	Percentage
Excellent	96-100	0	0	0	0
Very good	86-95	4	18,18	0	0
Good	76-85	7	31,81	8	36,36
Fairly Good	66-75	8	36,36	3	13,63
Fair	56-65	3	13,63	11	50
Poor	46-55	0	0	0	0
Very poor	0-45	0	0	0	0
Total		22	100	22	100

Based on the data shown above the result of post-test of experimental class was increased. four (18.18%) students got very good, seven (31,81%) students got good, eight (36,36%) students got fairly good, three (13,63%) students got fair and there was none students who got poor and very poor.

The result of post-test of control class was also shown in table 4.13, none students got excellent and very good, eight (36,36%) students got good, three (13,63%) got fairly good, and eleven (50%) students got fair. There was none (0%) students got poor and very poor.

The Mean Score of Post-Test between Experimental and Control Group in Five Components of Writing

Components of Writing	Mean score		Difference
	Experimental	Control	
Content	23.14	20.23	2.91
Organization	16.18	14.73	1.45
Vocabulary	16.23	14.91	1.32
Language use	17.59	16.64	0,96
Mechanic	3.41	3.27	0,14
Total	76.55	69.78	6.77

The data in above shows that the mean score of five components of writing in experimental and control group were different in range 6.77 points. The mean score of experimental was 76.55 while the mean score of the control group was 69.78. It means that the mean score of post-test in experimental group was higher than the control group.

The Mean Score Comparison of Experimental Group between Pre-test and Post-test from Five Components of Writing.

Components of Writing	Mean score		Difference
	Pre-test	Post-test	
Content	20.09	23.14	3.03
Organization	14.27	16.18	1.91
Vocabulary	13.59	16.23	2.64
Language use	14.27	17.59	3.32

Mechanic	3.23	3.41	0,18
Total	65.45	76.55	11.10

Based on the data shown above, the components that best improved were content and language use. At the pre-test, the mean score of the content was 20.09, at the post-test it become 23.14. It improved 3.03. On the other side the mean score language use at the pre-test was 14.27 and at the post-test was 17.59. It was improved 3.32. The component that moderately improved was vocabulary. At the pre-test the mean score was 13.59 and at the post-test, it become 16.23. It improved 2.64. The components that less improved were organization and mechanics. At the pre-test, the mean score of organization was 14.27, at the post-test it become 16.18. It improved 1.91 and the mean score of mechanics at the pre-test was 3.23 and at the post-test was 3.41. It was improved 0.18.

The Mean Score and Standard Deviation of Students' Pre-test and Post-test for Experimental and Control Class

The following tables were the result of the students' scores of pre-test and post-test in control and experimental group. The tables showed the difference score on mean score and standard deviation of both groups.

The Mean Score and Standard Deviation of the Students' Pre-Test

Group	Sample	Mean Score	Standard Deviation
Experimental	22	65.45	8,48
Control	22	65,45	11.81

The mean score of pre-test in control group was 65.45 which was categorized as good based on the scoring system by UKIT (2012) and experimental group was 65.45 which was categorized as good, UKIT (2012). In line with this, the researcher concluded that both experimental and control group were at the same level in writing achievement.
Furthermore, the explanation for students' achievement on the post-test score after the treatment was done. In this case, the post-test score was analyzed at the significant level 0.05 or equals to 0.05 by using inferential statistic through SPSS program version 21. The result of post-test as follows:

The Mean Score and Standard Deviation of the Students' Post-Test

Group	Sample	Mean Score	Standard Deviation
Experimental	22	76.73	10.03
Control	22	69.68	9.62

Data above showed that the mean scores of both experimental and control group were different after the treatment. The mean score of experimental group was 76.73 (65.45 < 76.73) whereas the control group was 69.68 (65.45 < 69.68). The mean score of post-test for experimental group was higher than the control group (76.73> 69.68) and the standard deviation for experimental group was 10.03 and control group was 9.64. The mean score both of groups based on the scoring system by UKIT (2012) shows that experimental was on the

good category and control was also on the good category. It means that the ability of the experimental group after getting the treatment using jigsaw technique is improved.

Test of significant (t-test)

This part analyzed about hypotheses by using inferential analysis or the result of hypotheses was computed by SPSS 21 version. In this case, the researcher used t-test (test of significance) independent sample test and t-table. The purpose of test to know the significance of difference between the results of students' means scores in post-test of experimental group and post-test of control group.

After conducting treatment and post-test, the researcher analyzed t-test (test of significance) independent sample test. As it was explained in Procedure of Collecting Data at Chapter III that the purpose of t-test was to Null Hypothesis (H_0) and Alternative Hypothesis (H_1) were accepted. It had been known that the level of significance ( ) = 0.05 with degree of freedom (df) = (n_1 + n_2) – 2, where n = number of subject (22), (df) = (22 + 22) – 2 = 42, so that the total number of subject (42).

To test of t-table, it was obtained through the formula as follow:

$$\text{T-table} = \left[1 - \frac{(\alpha)}{2} \right] = N - 2$$

$$= \left[1 - \frac{0.0}{2} \right] = 44 - 2$$

= 0.975 is the column and 60 is line so the result of t-table is 2.02.

Because t-table (2.02) > t-count (0.698) so Null Hypothesis (H_0) was accepted and in contrast if t-table < t-count so Null Hypothesis (H_0) was rejected. Below is the t-test results in pre-test and post-test in term of literal, inferential, and critical:

The Probability Value of t-test of the Students' English Achievement in Pre-test and Post-test

	t-table	t-count	2 Tailed Value (Probability Value)	( )	Remarks
Pre-test in Experimental and Control Groups	2.02	0.00	1.00	0.05	There was no different or Null Hypothesis was accepted
Post-test in Experimental and Control Groups		-2.377	0.02		Significantly Different or Alternative Hypothesis was accepted

The result of data analysis on pre-test of control and experimental groups, the researcher found that the Probability value (1.00) was higher than the level of significance at ( ) = (0.05) and the degree of freedom 44. The data also showed that the t-count value was smaller than t-table (0.00 < 2.02). It indicated that the Alternative Hypothesis (H_1) was rejected and the Null Hypothesis (H_0) was accepted. In the other word, there was no significant difference between the students English achievement in pre-test before treatment. After treatment, the researcher found that the Probability value (0.02) was smaller than the level of significance at ( ) = (0.05) and the degree of freedom 44. The data also showed that the t-count value was higher than t-table (2.377> 2.02). It indicated that the Alternative Hypothesis (H_1) was accepted and the Null Hypothesis (H_0) was rejected. It means that the implementation of jigsaw technique in writing the elements of a good paragraph could increase the students' ability.

Besides t-test above, it could be seen the difference between control and experimental group in their gain scores in the table below:

The Probability Value of t-test of the Difference Between Control and Experimental Group in Their Gain Scores

Group	Mean	Standard Deviation	t-count	Calculated t-Value	Remarks at ( ) = 0.05
Control Group (N=22)	4.23	7.283	2.382	0.02	
Experimental Group (N=22)	11.27	11.805			Significant

The result of data analysis on control and experimental group, the researcher found that t-value or probability (0.02) was smaller than the level of significance ( ) = (0.02 < 0.05) and t-count was higher than t-table (2.382 > 2.02). It means that there was significant difference of students' achievement between the students who got the treatment using jigsaw technique (experimental group) and the students who were taught by using conventional way (control group), or in the other word Alternative Hypothesis (H_1) was accepted.

The Analysis Data of the Students' Interest

The questionnaire was responded by the students individually based on the students' opinion after the treatment using Jigsaw Technique. The interest of the fourth semester students of UKI-Toraja in writing a good paragrah by using Jigsaw Technique showed great positive effects. Refers to the data analysis of the questionnaire items, the mean score of questionnaire were 73.182 and categorized into very interested classification. The data analysis can be seen in the following table.

The Rate Percentage of the Students' interest

No.	Classification	Rang Score	Frequency	Percentage
1.	Very Interested	65-80	18	81,81
2.	Interested	50-65	4	18,18
3.	Uninterested	35-50	0	0
4.	Very uninterested	20-35	0	0
	Total		22	100

Based on the analysis data questionnaire of the experimental group stated that none of the students responded in negative statement toward the use of Jigsaw Technique, it showed that 18 (81.81%) of students were very interested and 4 (18.18%) of students who was interested. Based on the score of the students in questionnaires, it was found that the highest score gotten by one of the students was 79. It is one point below the highest score, 80. The gained score, 79 was categorized as very interested. And the lowest score was 59 which was categorized as interested and most of the students indicated very interested and interested as positive statement about the use of Jigsaw Technique in writing the elements of a good paragraph.

Discussions.

The Ability of the Students in Identifying the Elements of a Good Paragaph.

The describtion of the students ability through the identification test from both pre-test and post-test done by control and experimental groups can be seen in the following.

The first, through pre-test, four of the students of control group identified the supporting sentence incorrectly. It means that they got only 62 (281.82%) scores. In the other side two students of experimental group identified the concluding sentence incorrectly. It means that they got score only 64 (290.91%).

The second, through the post-test three of the students of the control group identified the concluding sentence (CS) incorrectly. It means that they got score only 63 (286.36%) and the experimental group answered all correctly. It means that they got score 66 (300%). Using Jigsaw Technique is very helpful to identify the the elements of paragraph. It was proved by the experimental group with the score 66 (300%) after getting the treatment.

The Students' Writing Achievement

Based on previous finding on all writing components, it showed that the writing achievement of the fourth semester students of UKI-Toraja improved especially for experimental class. It was also supported by the students' frequency and rate percentage of the students' pre-test and post-test.

Based on the mean score of pre-test between experimental and control group can be seen that the difference is only -0.02. It means that there is no significant difference of the both

achievement of experimental and control group. On the other side after doing the treatment using Jigsaw Technique in writing the elements of a good paragraph, the difference of mean score from the post-test of both experimental and control group is 6.77 (30,77%). It means that using Jigsaw Technique in writing the elements of a paragraph can improve the students' ability.

Based on the rate percentage and frequency of students' score of pre-test, from the experimental and control group, none of the students who got the score in the category of very poor, very good and excellent. Most of them in the category of good, fairly good, fair and poor. On the other side, after the post test the rate percentage and frequency of the students' score showed that in the exprimental group 4 (18.18%) of the students who got the score in the very good category, 7 (31.81%) in good category, 8 (36.36%) in the fairly good category, 3 (13.63%) in the fair category and none of the students who got the score in the category of very poor, poor and excellent. In the control group the result shows that there is no significant improvement based on the rate percentage and frequency of the students score. It shows that 8 (36.36%) of the students in the good category, 3 (13.63%) in the fairly good category, 11 (50%) in the fair category and none of them in the very poor, poor,very good and excellent category. It means that based on the five components of writing, the ability of the students in experimental group after the treatment using jigsaw technique is improve well or in the other words Jigsaw Technique is working well. It is better than the cnventional way.

Referring to the result of the students' writing obtained the stated in finding above, the researcher used t-test in inferential statistic through SPSS version 21 program to test the hypothesis. Before doing the research, test significance of normality and homogeneity as a prerequisite was done and the result of significance of normality and homogenity is higher than the level of significance namely alpha ( ) 0.05. It means means that treatment can be continuosly done.

Test of significance (t-test) was found that the Probability value (1.00) was higher than the level of significance at ( ) = (0.05). The t-count value was smaller than t-table (0.00 < 2.02). It indicated that the Alternative Hypothesis (H_1) was rejected and the Null Hypothesis (H_0) was accepted. After treatment, the data was found that the Probability value (0.02) was smaller than the level of significance at ( ) = (0.05). The t-count value was higher than t-table (2.377 > 2.02). It indicates that the Alternative Hypothesis (H_1) was accepted and the Null Hypothesis (H_0) was rejected.

E. Conclusion

Based on the findings and discussion in the previous chapter, the researcher concluded that using Jigsaw Technique could affect the ability of the fourth semester students of UKI-Toraja to identify paragraph elements and develop the paragraph and the Reseacher also concluded that the Jigsaw Technique used in teaching the students to write the elements of a paragraph could stimulate the interest on the students.

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