

**Submission date:** 31-May-2022 05:33AM (UTC+0700)

**Submission ID:** 1847433834

**File name:** Article\_CDO\_Sinta\_2.pdf (747.3K)

**Word count:** 5916

**Character count:** 31675

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

### The Effect of Compare-Diagnose-Operate (CDO) Strategy to Improve Students' Writing Ability In Descriptive Text

Tatang Kusuma
Universitas Islam Negeri (UIN) Fatmawati Sukarno Bengkulu
tatangkusuma1998@gmail.com
Ali Akbarjono
Universitas Islam Negeri (UIN) Fatmawati Sukarno Bengkulu
aliakbarj250975@gmail.com
Fera Zasrianita
Universitas Islam Negeri (UIN) Fatmawati Sukarno Bengkulu

#### Abstract

ferazasrianita@ymail.com

This study aims to determine the differences in cognitive learning outcomes (in the form of pre-test and post-test scores) of students in class X IPS 1 as a control class and class XI MIPA 3 as experimental class at SMA N 5 Bengkulu Tengah, by providing treatment using the Compare -Diagnose-Operate (CDO) strategy. This type of research is Quasi Experiment. The population is tenth grade students of SMA N 5 Bengkulu Tengah with 368 students. From this population, 37 students were taken as samples. Each class is 17 students XI IPS 1 and 20 students XI MIPA 3. Research data were collected through writing tests and documentation. The results showed a significant change in the experimental class with an average value of 71.85 while in the control class an average value of 52.06. The post-test results show that the Compare-Diagnose-Operate (CDO) strategy can improve students' writing skills. Thus, the Compare-Diagnose-Operate (CDO) strategy can be one of effective strategy to increase students' writing ability.

**Keywords:** Compare-Diagnose-Operate (CDO) Strategy, Writing Descriptive Texts

#### A. Introduction

There are four aspects of language competence in learning English, namely listening, speaking, reading, and writing. Writing is one of the four foreign language skills that are an integral part of English education. Writing is the act of explaining a language so that the reader can grasp the meaning the writer conveys. Students may create multiple drafts or versions of their writing with a focus on the writing process and gain input from classmates while teaching writing as a process. However, the fresh focus on process must be seen in the prospect of a process-product balance. The ability of students learning English is one of the important things that must be done well because it will affect the ability of students to develop their writing skills.

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

In general, it is believed that improving writing skills will contribute to the success of students' writing skills. Furthermore, it is true that teaching writing will be influenced by the teaching techniques used by teachers. AtSMA Negeri 5 Bengkulu Tengah, teaching writing is divided into several parts, namely: Writing for Sentence Formation, Paragraph Writing, Essay Writing, and Scientific Writing. However, there is a reason why students' writing skills are still not good enough. In practice in the classroom, students often complain that writing assignments are very difficult. Writing turned out to be a scourge for students. In fact, mastery of the material is the basic goal of the teaching and learning process. Mastery of the material is also often used as the main consideration to measure the success or failure of a lecturer in teaching. Byrne categorized three problems that made writing skills difficult to master, namely linguistic, cognitive, and content problems.

Writing is not an easy skill for students to master since learners need to pay attention to things such as content, structure, vocabulary, usage of grammar or expression, and mechanics while writing. For second language learners, Richards and Renandya state that writing is the most difficult ability. The task lies not only in producing and organizing thoughts, but also in converting these thoughts into readable text. The abilities involved in writing are dynamic. Second language authors should pay attention to their preparation and organizing skills as well as their spelling and punctuation skills. So, teachers must be more creative when teaching English classes by using strategies so that students understand the material more easily.

In learning to write, there are many strategies that can be used by teachers, one of which is the Compare-Diagnose-Operate (CDO), which is a technique used individually by students to see and identify where revisions are needed, diagnose problems, and operate then determine and carry out the intended revisionsand to guide students through the elements of the revision process so that they cannot access themselves and develop a revision process so that individual elements will be revised and occur regularly at appropriate times. In learning to write the Compare, Diagnose, and Operate (CDO) strategy, it will help students solve problems in writing and the Compare, Diagnose, and Operate (CDO) strategy has benefits when used by teachers and students in the learning process because it can improve students' writing skills. To revise, analyze paragraphs, and simplify the writing process.

Compare, diagnose, and operate (CDO) is an effective approach that can be used, especially in writing classes by learners of English. This technique involves comparing and describing, diagnosing problems and running and implementing revisions. This approach is intended to improve the awareness of students in the writing class.

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021

Page 138-154

The researcher noted that, based on the experience of the researcher in learning to write, the instructor had used several techniques and strategies in teaching writing, but some students did not have good skills in producing their written text. Thus, the researcher aims to introduce a methodology by incorporating Compare, Diagnose, and Operate (CDO) in the writing class to help students increase interest in the learning process and to help students write.

On 21 and 22 December 2020, initial findings were made using a teacher interview questionnaire, knowledge was collected, printed books and journals were the teaching tools used by teachers in the implementation of learning. The fundamental problem identified in the writing class is the lack of written comprehension of the students, especially in writing descriptive texts(Preliminary obsevation, 2020, December, 21th).

In this case, writing skills really need an understanding to make it easier to write a text. By using a strategy, students can understand writing a text that will be written in writing, and balanced with the vocabulary that is owned by the student. If the vocabulary is lacking, it will hinder the writing process.

From the explanation above, the teacher needs to provide the right solution so that the learning objectives related to writing match the students' abilities, so the researcher chooses one of the strategies, namely Compare Diagnose Operate (CDO). The choice of this strategy is due to the suitability of the characteristics mastered by students, namely writing.

Therefore, the purpose of this study is to find out whether this writing strategy can help students to achieve dynamic indicators of writing skills. It is hoped that the systematic analysis used can evaluate the effectiveness of the Compare Diagnose Operate (CDO) Strategy on the writing skills of students at SMA Negeri 5 Bengkulu Tengah in the tenth grade.

Based on the background of the problem above, the author is motivated to conduct research with the title "The Effect Of Compare Diagnose Operate (CDO) Strategy To Improve Students' Writing Ability In Descriptive Text." Based on the limitation above that have been explained, the research question of this research is formulated as the following: "Is there any effect on the use of Compare-Diagnose-Operate (CDO) strategy to improve students' writing ability in descriptive text at the tenth grade?"

#### B. Research Methodology

140

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

The researchused quantitative approach in the form of quasi experimental method in order to collect the data. In quasi experimental research, the researcher observes the effect on one or more dependent variables and manipulates at least one independent variable and controls for other relevant variables (Gay, LR, 2012:250). The researcherusedquasi experimental because the researcher want to compared two group with the treatment in two class. Schematically, the quasi experimental design can be drawn as follows:

Table 3.1

The Schematic of The Quasi-Experimental Design

Group	Pre-Test	Treatment	Post-Test
Experimental	01	X	O2
Control	O2	-	O2

#### Note:

- X represents the exposure of a group to an experimental variable
- O refers to the process of observation or measurement

In this research, the researcher used quasi experimental research with quantitative approach. The researcher want to know the effect of use Compare-Diagnose-Operate (CDO) strategy towards writing ability of the tenth grade of SMA Negeri 5 Bengkulu Tengah.

Population is not only about the quantity of the subject/object that is going to be learnt, but also involves the whole characteristics of the subject or object. At SMA Negeri 5 Bengkulu Tengah, there are 368 students consisting of 5 class X, 5 class XI and 4 class XII and divided into X MIPA (1,2 and 3) and X IPS (1 and 2), for class XI MIPA (1,2 and 3) and XI IPS (1 and 2), as well as class XII MIPA (1 and 2) and XII IPS (1 and 2).

The sample is a part of the population chosen as representative. Because the design includes pre-experimental, purposive sampling is used to determine the sample. In purposive sampling, sample elements are considered distinctive and representative. Researchers must take sampling decisions from the start in overall planning to take research samples. In this case, the researcher took two class, namely the tenth grade of SMA Negeri 5 Bengkulu Tengah, X MIPA 1as the experimental class and X IPS 1 as the control class. The researcher decided to divide the two class because in two class they have different abilities in writing English. This effect is known after knowing the significant difference between students who were taught before using the Compare-Diagnose-Operate (CDO) strategy and after the Compare-Diagnose-Operate (CDO) strategy by comparing the pre-test and post-test scores.

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021

Page 138-154

	10	1 doie 5.2								
	sample of the research									
.,	GI.									
No	Class									
		Control class	Experiment class	Total						
1	X IPS 1									
		20	-	-						
2	X MIPA 3	-	20	-						
	,	Total		40						

Table 3.2

(Source: SMA N 5 Bengkulu Tengah (TA. 2020/2021)

10

The investigator used tests when collecting the data. For all of the samples, the researcher was do the pre-test and post-test. The pre-test was provide control and experimental groups with both. By offering the exam to the learners, the data was be obtained. Pre-test to find out the skill of the students before the care is offered by the learners. In the procedure, the researcher was teach the students without the treatment in the experimental class using the Compare-Diagnose-Operate (CDO) strategy as a media and monitor class. Then, after the students are handled by the Compare-Diagnose-Operate technique, post-test to assess student achievement.

The instrument was use in this research is writing test. Test is a set of stimuli presented to individual in order to elicit responses on the basis of which a numerical score can be assigned. The test is will use to find out the ability of students' writing descriptive text after learning by using Compare-Diagnose-Operate (CDO) strategy. The researcher will ask the students to write descriptive text. The pretest and posttest is about writing descriptive text. The researcher will give the pretest and posttest to both control and experimental groups.

Observation is a technique or way of collecting data by making observations of ongoing activities, these activities can be related to the way the teacher teaches, students learn the principal who is giving direction, personnel in the field of staff who are in a meeting and so on. Observations can be carried out in a participatory or non-participatory manner. As a data collection method, ordinary observation is defined as systematic observation and recording of the elements that appear in a symptom on the object of research. The visible element is called data or information which must be properly and completely observed and recorded. This method is used to see and observe directly the situation in the field so that the researcher gets a broader picture of the problem being studied. This technique is used to see the ways the teacher teaches during the learning process carried out by the English subject teacher. Through this research, the researcher saw firsthand how the interaction between teachers and students during the implementation of learning. Researchers also used an observation guide. The data that will be taken through this method are: information on how students participate

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

in learning, methods, strategies used by the teacher in learning, tools and resources for learning English.

At the first meeting, the researcher gives a pre-test to the students. There the researcher explained the topic or wrote it down in the board. When the students are regarded understand about the topic, the researcher conveyed the lesson objective for that meeting; at the end of the class, the students were expected to be able to write a descriptivetextbefore being taught the treatment.

After gaining the pre-test, the researcher gives treatment by Compare-Diagnose-Operate. The purpose of treatment is to help students in understanding Writing text, especially in simple descriptive text. The experimental class was taught by Compare-Diagnose-Operate. This strategy consisted of three steps; those were Compare, Diagnose, and Operate.

First, the researcher applied Compare: 1) The researche was give the students a story map and ask them to fill it as the draft of descriptive text. 2) After the researcher explained about the material of descriptive text. 3) Then, the researcher was ask the students to write a descriptive text based on what is in the students' mind. 3) After that, the students reads the text carefully and comprehensively. 4) Then, the researcher was ask the students to find the differences between what the author meant to write and what was written. 5) The teacher gave the students 11 opinions for mentioning the mismatch.

Second, the researcher applied the next step that was Diagnose, 1) The students diagnose why those differences happened. 2) The researcher asks the students to determine a clear reason for the differences that the students found in comparing step. 3) They must check and fix the errors in the text without deleting the mistakes.

Finally, the researcher applied the third step, that wasOperate, 1) The researcher asks the students to solve the problem and evaluates whether or not the change is good for writing. 2) The students make changes needed by using one of six opinions. Then, they will rewrite the revised text. 3) Finally, the researcher can see the result of the students' writing in a descriptive text.

The post-test is given to the students after conducting the treatment of using Compare-Diagnose-Operate toward students' writing ability. Similar to pre-test, The researcher will give a conclusion about descriptive text.

In the last phase of this analysis, the investigator was analyze the results. The researcher was use t-Test formula to the effect of the treatment in evaluating the results, the researcher

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

was make the student writing skill category based on the material, organization, vocabulary, language use / grammar, and mechanics score feature. Before analyzed using t-Test, to know whether the data distributed normally normal or not, the researcher do the normality and homogeneity first. The investigator was use the Statistical Package for Social Science (SPSS) 25 version software to analyze the results. Furthermore, the researcher was found out the means score and standard deviation of the pre-test and post-test to see the differences.

#### C. Results and Discussion

#### 1. Results

In this chapter, the result and discussion of the research were presented. The result showed that the effect of using Compare- Diagnose-Operate (CDO) strategy at tenth grade students of SMAN 5 Bengkulu Tengah was increased. The findings also included the result of the study that showed whether there was significant differences of students' writing descriptive text between the experimental class and control class who were taught using Compare-Diagnose-Operate (CDO) strategy and those who were not. The result of the research were obtained based on the data analysis. After getting the data, the data were analyzed by using SPSS 25 version software.

#### The Result of Descriptive Writing Test

This section describes and analyzes the test before and after treatment. The pre-test and post-test were given to the students in the experimental group and control group. The pre-test was given to the student before the experiment was conducted and the post-test was given at the end of the experiment.

The Description of Pre-test Score and Post-test Score in the Experimental Group

Tabl 5 4.1
Descriptive Statistic of Experimental Group

Descriptive Statistics									
Pre-Test of experimental class	N 20	Minimum 48	Maximum 75	Mean 62,30	Std. Deviation 8,285				
Post-Test of experimental class	20	59	84	71,85	6,854				

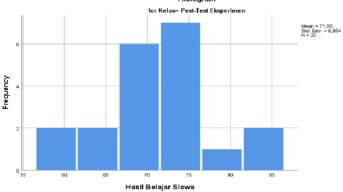
According on the table above in the experimental class that uses a sample (N) of 20 students, the minimum pre-test value is 48 and the maximum value is 75 so that it gets an

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021

Page 138-154

average of 62, 30. Meanwhile the minimum post-test value is 59 and the maximum value is 84 so that it gets an average of 71, 85.

Figure 4.1 Graph for Pre-test score of experimental group Histogram for Kelas- Pre-Test Eksperime Mean = 62,3 Std. Dev. = 8,285 N = 28 Frequency Figure 4.2 Graph for Post-test score of experimental group Histogram for Kelas= Post-Test Eksperimer



Based on figure 4.1 and 4.2, the 16 bst test score was higher than the pretest scores. It means teaching writing descriptive text by using Compare- Diagnose-Operate (CDO) strategy increased the students writing descriptive text.

#### The Description of Pre-test Score and Post-test Score in the Control Group Tabel 5.2

**Descriptive Statistic of Control Group** 

Descriptive Statistics								
	_							
	N	Minimum	Maximum	Mean	Std. Deviation			
Pre-Test of control class	20	44	70	55,12	7,390			
Post-Test of conrol class	20	30	75	52,06	12,147			

According on the table above in the control class that uses a sample (N) of 17 students, the minimum pre-test value is 44 and the maximum value is 70 so that it gets an average of

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

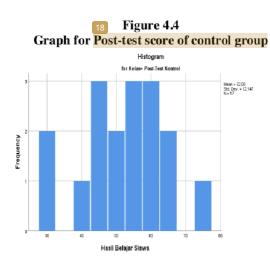
55, 12. Meanwhile the minimum post-test value is 30 and the maximum value is 75 so that it gets an average of 12, 147.

Graph for Pre-test score of control group

Histogram
for Kolar- Pre-Test Kentrel

Section 2017

Hamil Belajar Siswa



Based on figure 4.3 and 4.4, it was showed that the post-test and pre-test score were relative the same. The highest frequency on pre-test was on average category. Meanwhile, the highest frequency on post-test was on good category. It meant the score of the student' writing descriptive text increased gradually.

#### The Normality and Homogeneity of the Data

Homogeneity and normality of the data should be measured before analyzing the data. Test normality is used to find out whether the score distributed normally or not. If the significance > 0,05, it means the test distribute normally. If the significance < 0,05, it means the test is not distribute normally. The Kolmogorov smirnov test was used to measure the data because the data of each group less than 37 data.

#### The Result of Nomality Data Test of Pre-Test Score

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

Tabel 4.3
Test of Normality of Pre-Test Scores in the Experimental Group

	Kolmogorov-Smirnov <sup>a</sup>			61 Shapiro-Wilk				
	Statistic	Df	Sig.	Statistic Df Sig.				
L	,165	20	,159	,939	20	,227		

Based on the data above, the Kormogorov-Smirnov test of the pre- test in the experimental class showed that the significance was 0.159. It was higher than 0.05. It meant that the data obtained were considered normal.

The histogram of the normal data of pre-test score of experimental class can be seen on the figure below:

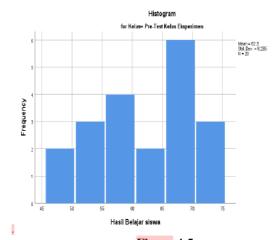


Figure 4.5
The Histogram of the Students' Pre-test of the Experimental Class

Tabel 4.4
Test of Normality of Pre-Test Scores in the Cotrol Group

1050 01		iiij oi i i c	Test sectes in	the como	Toroup		
Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk				
Statistic	df	Sig.	Statistic	Df	Sig.		
,151	20	,200	,965	20	,658		

The Kormogorov-Smirnov test of the pre-test in the control class showed that the significance was 0.200. Since 0.200> 0.05, it concluded that the data obtained were considered normal.

The histogram of the normal data of pre-test score the control group can be seen on figure:

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

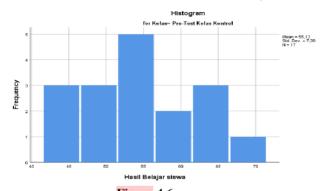


Figure 4.6
The Histogram of the Students' Pre-test of the Control Class

The Result of Nomality Data Test of Post-Test Score Tabel 4.5

Test of Normality of Post-Test Scores in the Experimental Group

Kolr	nogorov-S	mirnov <sup>a</sup>		Shapiro-Wilk		
Statistic	df	Sig.	Statistic	Df	Sig.	
,100	17	,200	,966	17	,749	

The The Kormogorov-Smirnov test of the post-test in the experimental group showed that the significance was 0.200. Since 0.200 > 0.05, it concluded that the data obtained were considered normal.

The histogram of the normal data of post-test scores of the experimental group can be seen on figure:

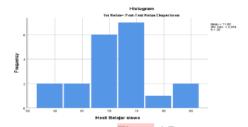


Figure 4.7
The Histogram of the Students Post-test of the Experimental Class

Tabel 4.6
Test of Normality of Post-Test Scores in the Control Group

Kolmogorov	-Smirno	$v^a$	S	hapiro-W	/ilk
Statistic	Df	Sig.	Statistic	Df	Sig.
,165	17	,200	,972	17	,851

The The Kormogorov-Smirnov test of the post-test in the experimental group showed

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

that the significance was 0.200. Since 0.200 > 0.05, it concluded that the data obtained were considered normal.

The histogram of the normal data of post-test scores of the experimental group can be seen on figure:

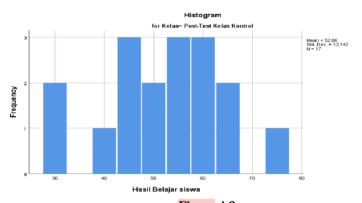


Figure 4.8

The Histogram of the Students' Post-test of the Control Class

#### The Result of Homogeneity of Varian 153 Test

The result of homogeneity of variances test can be seen on table 4.7

Table 4.7
Test of Homogeneity of Variances

df1	df2	Sig.
1	35	,034
	df1 1	df1 df2

The test homogeneity of variences showed that the significant were 0.034. Since 0.034 was lower than alpha level of 0.05, it concluded that the variances of every test were heterogenous.

#### The Statistical Analysis Result

To verify the hypothesis proposal, the researcher applied the statistical analysis. The tests are T-test and independent sample t-test. T-test which is paired t-test was used to find out whether there were significant differences in student' writing descriptive text before and after the treatment in both experimental and control group, meanwhile independent sample t-test was used to find out whether there was significant differences between experimental group and control group. The researcher used Statistical Package for Social Science (SPSS) 25 program for windows in order to find the paired sample t-test and independent sample t-test.

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021

Page 138-154

## Paired Sample T-Test Analysis Statistical Analysis on the Result of Pre-test and Post-test in the Experimental Group

Table 4.633

Paired Samples Statistics of Experimental Group

	- miles states of interest of interest of the									
	Paired Samples Statistics									
		Mean	N	Std. Deviation	Std. Error Mean					
Pair :	Pre-Test	62,30	20	8,285	1,853					
	Post-Test	71,85	20	6,854	1,533					

Based on the table above, the mean of writing pre-test of the experimental group was 62.30 and the standard deviation was 8.285. Meanwhile, the mean of post-test in the experimental group was 71.85 and the standard deviation was 6.854.

Table 4.9
Paired Samples Test of Experimental Group

	Paired Differences							
					n fidence I of the			
	13 Mean	Std. Deviation	Std. Error Mean	Diffe Lower	rence Upper	Т	Df	Sig. (2- tailed)
Pair 1 Pre-Test Post-Test	-9,550	5,424	1,213	-12,088	-7,012	-7,874	19	<b>,000</b>

From the table above, the result of paired sample difference in mean between pre-test and post-test of writing in the experimental group was -9.550 with standard deviation 5.42 at the significant level of 0.05 and degree off freedom (df) 19 and the value of t-table for two tailed test was 0.000.

In addition, based on the result above, it show df 19 with a significant level (0,05). In both calcucations F count >F table and the significance is 0,000<0,005. It means that the independent variable has an effect on dependent variable stimultaneously in experiment class.

Thus, it could be seen that t-obtained significant two tailed , 0.000 < 0.05. It means that the researcher hypothesis (Ha) was accepted and the null hypothesis (Ho) was rejected. It means that there was significance influence in experimental group.

#### Statistical Analysis on the Result of Pre-test and Post-test in the Control Group

Table 4.10
Paired San 4 es Statistics of Control Group

Paired Samples Statistics								
		Mean	N	Std. Deviation	Std. Error Mean			
Pair 2	Pre-Test	55,12	17	7,390	1,792			
	Post-Test	52,06	17	12,147	2,946			

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

32

The result of paired samples statistic above, the mean of pre-test in the control group was 55,12 and the standard deviation was 7,390. Meanwhile, in post-test the result of mean was 52.06 and the standard deviation was 12.147.

Tabel. 4. 11
Paired Samples Test of Control Group

Paired Samples Test								
Pair 2   Pre-Test Post-Test	Mean 3,059	Std. Deviation 8,692	Std. Error Mean 2,108	95% Co Interva	nfidence il of the rence Upper 7,528	T 1,451	Df 16	Sig. (2-tailed) ,166

The result of the paired sample t-test, paired sample difference in mean between pretest and post-test of writing skills in the control group was 3,059 with standard deviation was 8,692 and t-obtained 1,451 at the significance level of 0.05 and the degree of freedom 16 and the value of t-table two tailed test was 0.166.

In addition, based on the result above, it show df 16 with a significant level (0,05). In both calcucations F count >F table and the significance is 0,166>0,005. It means that the independent variable hasn't an effect on dependent variable stimultaneously in control class.

Thus, it could be seen that significance two-tailed was 0.166 was lower than the 0.05. It meant that the researcher hypothesis (Ha) was rejected and the null hypothesis (Ho) was accepted. It means that there wasn't significance influence in control group.

#### Independent Sample T-test Analysis of Students' Writing Descriptive Text

Tabel 4. 12
Independent Sample Test

	Independent Samples Test											
			e's Test juality iances			t-te	st for Equality	y of Means				
		F	Sig.	Т	Df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Cor Interval Differ Lower	of the rence		
Result	Equal variances as sumed	4,853	,034	6,223	35	,000	19,791	3,181	13,334	Upper 26,248		
	Equal variances not assumed			5,959	24,3 31	,000,	19,791	3,321	12,942	26,640		

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 38-154

The independent sample showed the comparison of post-test of experimental group and control group displayed the difference between both scores. It was identified that t count 6.223. From the data, it was concluded that alternative hypothesis (Ha) was accepted and null hypothesis (Ho) was rejected. It mean that was significant influence in writing skills of descriptive text scores between the students who were taught by using Compare-Diagnose-Operate (CDO) strategy and those who were not.

#### 2. Discussion

Experimental and control group were same in their initial level of writing skills as indicated by the writing pre-test were given before the treatment. The mean score of pre-test in experimental group was 62 30 and the mean score of control group was 55,12. Statistical analyzing has revealed that there was no significant influence in their pre-test scores of writing skills. In other words, the treatment Compare-Diagnose-Operate (CDO) strategy were started similar level writing skill.

The findings in this study are supported by research conducted by Irwan and Fitriana which entitled *Teaching Writing Texts Through Compare- Diagnose-Operate Strategy for Senior High School Students*. They are expected to assist teachers in overcoming problems in teaching writing and increase students" ability. Then, Cindy Sherman also conducted a research with the title *The Effects of Strategy Instruction with a CDO Procedure in General Education Settings*. The conclusion of her research showed that there was a significance effect of students writing achievement which was taught by Compare-Diagnose-Operate (CDO) strategy. Based on the previous studies above, the previous researchers used the Compare-Diagnose-Operate (CDO) strategy to increase students writing ability. The difference of those researches is that the researcher used writing persuasive text as the instrument of this research which the previous researchers were using descriptive text.

Based on the result of the study, the following interpretations were presented to strengthen the value of the study. After doing the post-test, the result showed a statistically significant influence in writing skills between the students who were taught using Compare-Diagnose-Operate (CDO) strategy and those who were not. The mean score of the post-test experimental group was 71,85. It was higher than the mean score of the post-test of control group that was 52,06. The results supported the theory by Scardamalia and Bereiter about Compare-Diagnose-Operate (CDO) strategy which enables students to make easier revision,

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

hence the scores of students given treatment were significantly higher. Compare-Diagnose-Operate (CDO) strategy allowed the students to compare their writing to other students, then diagnose their writing such the grammar, the function of punctuation, and the organize of the paragraph, finally they write their writing into the new one after did those steps. It was concluded that the Compare-Diagnose-Operate (CDO) strategy gave significant contribution in improving students, writing persuasive text.

The mean post-test of experimental group was compared to the mean of control class. The result showed that sig. (2-tailed) or p-value (0.000) was less than a-value (0.05). It can be concluded that there was significant influence in writing skills by using Compare-Diagnose-Operate (CDO) strategy.

Finally, using Compare-Diagnose-Operate (CDO) strategy could be one of the ways in teaching to develop writing skills in descriptive text. Most of tenth grade in experimental group had better development and improvement in their post-test scores compared to their pre-test scores. It related to the theory Scardamalia and Bereiter that implementation of Compare-Diagnose-Operate (CDO) strategy can improve students writing skills. At the students in control group were not get the treatment of Compare-Diagnose-Operate (CDO) strategy, the result of the young learners post-test score were not significantly improved. The students in control group get lower score in the post-test. The result of this research showed that using Compare-Diagnose-Operate (CDO) strategy gave significant difference in improving tenth grade students' writing ability. However, it took time to make get used to this strategy because this technique was new for them. The finding of this research is in line with Cindy (2011) who found that CDO could improve students' writing ability.

#### D. Conclusion

Based on the result and discussion stated on the previous chapter, It can be concluded that there was a significant effect in writing descriptive text toward the students who were taught by using the Compare-Diagnose- Operate strategy and those who were not. The students in the experimental group could improve their writing descriptive text significantly. It can be seen from the analysis of the data gathered during the experiment and after the experiment.

Based on hypothesis test results through t-test assisted by SPSS 25 showed the value 0.000 > 0.05. Thus, Ho: there is no significant influence of using the Compare-Diagnose-Operate (CDO) strategy on students" writing ability was rejected and Ha: there is a

E-ISSN: 2723-6900 P-ISSN: 2745-9578 Volume 2 Number 2, 2021 Page 138-154

significant influence of using the Compare-Diagnose-Operate (CDO) strategy on students" writing ability was accepted. It concluded that there is a significant influence of using the Compare-Diagnose-Operate (CDO) strategy on students" writing ability and students taught with conventional method.

#### References

- Alice, O. & Ann, H. (2007). *Introduction to Academic Writing*. (USA: Person Education Inc, 2007) page 17 28 Reid, (1993-236-237).
- Batubara, F.A. (2017). Improving Students' Ability In Writing of Announcement Through Gallery Walk Technique of Eight Grade At MtsJam'iyatul Alwashliyah Tembung In Academic Year 2016/2017. IAIN Medan: North Sumatra.
- Byrne, D. (1984). Teaching Writing Skill. England: Essex. Longman
- Cindy, K. S. (2011). The Effect of Strategy Instruction with a CDO Procedure in General Education Setting. University of Maryland: Unpublished Dissertation. Page 15 32 Ibid
- Elbow, P. (1984). Writing without Teacher (2<sup>nd</sup>ed). New York: Oxford University Press.
- Gay, L.R.et.all. (2012). *Eduactional Research* 10<sup>th</sup>.ed. United State of America:Pearson education.
- Troia, G. (2014). Evidence-based practices for writing instruction (Document No.IC-5).Retrieved May 20, 2016. <a href="http://ceedar.education.ufl.edu/tools/innovation-configuration">http://ceedar.education.ufl.edu/tools/innovation-configuration</a>.
- Husna, L. (2017). An analysis of students' writing skill in descriptive text at grade X1 IPA1 of MAN 2 Padang. *Jurnal Ilmiah Pendidikan Scholastic*, 1(1), 16-28.
- Harmer, J. (2004). How to Teach Writing. London: Pearson Education Limited. England:
- Harmer, J. (2007). The Practice of English Language Teaching. England: Longman.
- Harmer, J. (2007). How to Teach Writing . (Longman: Pearson Education Limited
- Irwan , dkk (2005). Teaching Writing Texts Through Compare-Diagnose-Operate Strategy for Senior High School Students. Bung Hatta University. Page 4
- Blanchard, K. & Root, C. (2003). Ready to Write. New York: Person Education Inc.
- Mar'atuzahdrani. (2019). Increasing Student Writing Ability By Using Compare Diagnose Operate Of The Tenth Graders Osf Sman 1 Batang Hari East Lampung. Lampung: UNLA.
- Javed, M., Juan, W.X., Nazli, S. (2013). A Study of Students Assessment in Writing Skills of the English Language. Malaysia. International Journal of Instruction. 6(3), 21.
- Shannon and Palloway.(1993). Writing assessment and instruction for students with learning disabilities. San Francisco: JassayBasa.
- Zahrani, M. A. (2019). Increasing students writing ability by using compare-diagnoseoperate of the tenth graders of SMAN 1 Batanghari East Lampung (Doctoral dissertation, IAIN Metro).

**ORIGINALITY REPORT** 

SIMILARITY INDEX

19%

INTERNET SOURCES

**15**% **PUBLICATIONS** 

%

STUDENT PAPERS

PRIMARY SOURCES

Gergely Szűcs. "The impact of patent protection on environmental and general innovations", Corvinus University of Budapest, 2015

Publication

openjournal.unpam.ac.id

Internet Source

repository.uhn.ac.id

Internet Source

riset.unisma.ac.id

Internet Source

www.jurnal.unsyiah.ac.id 5

Internet Source

vdocuments.pub 6

Internet Source

mail.mjltm.org

Internet Source

Mahfud, C Hermawan, D A Pradana, H D Susanti. "Developing a Problem-Based

Learning Model through E-Learning for Historical Subjects to Enhance Students Learning Outcomes at SMA Negeri 1 Rogojampi", IOP Conference Series: Earth and Environmental Science, 2020

Publication

9	journalscmu.sinaweb.net Internet Source	1%
10	kupdf.net Internet Source	<1%
11	Herman Herman, Helty Sinaga, Bertaria Sohnata Hutauruk. "STUDENTS' DIFFICULTIES IN USING PERSONAL PRONOUNS IN WRITING RECOUNT TEXT", Scientia: Jurnal Hasil Penelitian, 2020 Publication	<1%
12	ejurnal.bunghatta.ac.id Internet Source	<1%
13	journal.trunojoyo.ac.id Internet Source	<1%
14	Muhamad Ilham Hikmawandini, Nia Kurniawati. "(A Quasi-Experimental Study at the Tenth Grade Students of SMA Negeri 1 Cibeber)", Jurnal JOEPALLT (Journal of English Pedagogy, Linguistics, Literature, and Teaching), 2017 Publication	<1%

_	15	pdfs.semanticscholar.org Internet Source	<1%
-	16	repository.metrouniv.ac.id Internet Source	<1%
-	17	www.neliti.com Internet Source	<1%
	18	Seher Gurdil Yilmaz, Sevban Arslan, Sevban Arslan. "Effects of Progressive Relaxation Exercises on Anxiety and Comfort of Turkish Breast Cancer Patients Receiving Chemotherapy", Asian Pacific Journal of Cancer Prevention, 2015 Publication	<1%
	19	www.journal.staihubbulwathan.id Internet Source	<1%
	20	christuniversity.in Internet Source	<1%
_	21	jptam.org Internet Source	<1%
_	22	worldofresearches.com Internet Source	<1%
	23	Putu Ngurah Rusmawan. "Using Crossword Puzzle to increase Students' Vocabularies for Writing Skill in Descriptive Text", ENGLISH	<1%

# FRANCA: Academic Journal of English Language and Education, 2018

Publication

24	id.wikipedia.org Internet Source	<1%
25	jurnal.lp2msasbabel.ac.id Internet Source	<1%
26	www.avpcalifornia.org Internet Source	<1%
27	Firdaus Firdaus. "Pictures and Learning Motivation Towards the Eighth Grade Students' Writing Achievement on Descriptive Paragraph", Channing: Journal of English Language Education and Literature, 2020 Publication	<1%
28	jurnal.uhnp.ac.id Internet Source	<1%
29	link.springer.com Internet Source	<1%
30	mail.journalfai.unisla.ac.id Internet Source	<1%
31	ejournal.uin-suka.ac.id Internet Source	<1%
32	jelt.unbari.ac.id Internet Source	<1%

33	publishing.globalcsrc.org Internet Source	<1%
34	ro.ecu.edu.au Internet Source	<1%
35	www.jm.ejournal.id Internet Source	<1%
36	educationdocbox.com Internet Source	<1%
37	journal.unnes.ac.id Internet Source	<1%
38	repository.unmul.ac.id Internet Source	<1%
39	www.theyogicjournal.com Internet Source	<1%
40	drum.lib.umd.edu Internet Source	<1%
41	"WUWHS 2020 Global Healing Changing Lives, Abu Dhabi, UAE March 8–12", Journal of Wound Care, 2020 Publication	<1%
42	Dutamo Fonkamo Wanore. "The Effects of Reflective Teaching on College of Teacher Education Students' Paragraph Writing Performance: Experimental Study", Research Square Platform LLC, 2022	<1%

Publication

Anwar A. H. Al-Athwary, Nada M. Lasloum. <1% 43 "Second Language Listening Comprehension Gain From Aural vs. Audio-Visual Inputs: The Case of EFL Arab Learners", Journal of Language Teaching and Research, 2021 Publication Www.iejme.com <1% 44 Internet Source Emad Albaaly, Steven Higgins. "The impact of 45 interactive whiteboard technology on medical students' achievement in ESL essay writing: an early study in Egypt", The Language Learning Journal, 2012 Publication <1% Irlidiya Irlidiya, Achmad Tolla, Nurdin Noni, 46 Anshari Anshari. "The Development of Interactive Multimedia for First-grade Beginning Readers of Elementary School: An Innovative Learning Approach", Journal of Language Teaching and Research, 2015 Publication K. Kantzos, L. Vrizidis. "Statistical testing of <1% 47 empirical research hypotheses in accounting", Journal of Statistics and Management Systems, 2001

48	Selami Aydin, Emrah Özdemir. "chapter 12 Using Blogs to Motivate English as a Foreign Language Writers", IGI Global, 2019 Publication	<1%
49	commons.emich.edu Internet Source	<1%
50	journal.um.ac.id Internet Source	<1%
51	Sumarie Roodt, Yusuf Ryklief. "chapter 37 Using Digital Game-Based Learning to Improve the Academic Effciency of Vocational Education students", IGI Global, 2022 Publication	<1%
52	d.researchbib.com Internet Source	<1%
53	dspace.uii.ac.id Internet Source	<1%
54	ejournal.transbahasa.co.id Internet Source	<1%
55	journal.ipm2kpe.or.id Internet Source	<1%
56	journal.ubm.ac.id Internet Source	<1%
57	jurnal.unimed.ac.id Internet Source	<1%

58	jurnal.untan.ac.id Internet Source	<1%
59	newinera.com Internet Source	<1%
60	ojs.umada.ac.id Internet Source	<1%
61	scholar.uwindsor.ca Internet Source	<1%
62	www.statlit.org Internet Source	<1%
63	Arisandi Setiyawan, Itsnan Bakhtiar Rifdi. "The Correlation between Playing Online Game English Version And Students' English Achievement At Third Grade of Vocational Senior High School 3 Pamekasan", WACANA DIDAKTIKA, 2016 Publication	<1%
64	Gusnedi, Ratnawulan, A Devialita.  "Effectiveness of using sequenced model student books for integrated science lessons with themes of the human body adaptation system at temperature on student learning outcomes", Journal of Physics: Conference Series, 2019  Publication	<1%

65	Mukminatus Zuhriyah, Ria Kamilah Agustina.
	"Brain-based learning and high order thinking
	skills effect on students' writing ability", JEES
	(Journal of English Educators Society), 2020
	Publication

Publication

Ravilal Devananda Udeshika Priyadarshani 66 Sugathapala, Mattaka Gamage Ruwini Chandrika. "Student Nurses' Knowledge Acquisition on Oral Medication Administration: Comparison of Lecture Demonstration Vs. Video Demonstration", Research Square, 2020

<1%

Tae-Hee Park, Tae-Sun Kim, Jung-Hwa Park, 67 Young-Tae Jun, Ji-Hyang Lee, Chi-Jung Kim, Jin-Suk Kwon. "A Suitability Assessment of the

<1%

Functional Content Platform for Firefighter's Stress Reduction (part 2)", Fire Science and Engineering, 2022

Publication

Publication

68

U. Hijriyah, E. Pratiwi, A. Susanti, W. Anggraini, A. P. Febriani. "The Effect of Problem Posing Type Post-Solution Posing Learning Model on Self-regulation Skills and Science Process Skill of the Tenth-grade Students of Islamic Senior High School Kebumen, Tanggamus", Journal of Physics: Conference Series, 2020

<1%

Publication

	69	eprints.utar.edu.my Internet Source	<1%
-	70	files.eric.ed.gov Internet Source	<1%
_	71	ir.cnu.edu.tw Internet Source	<1%
_	72	journal.iaimnumetrolampung.ac.id Internet Source	<1%
	73	www.cs.york.ac.uk Internet Source	<1%
	74	www.mindmeister.com Internet Source	<1%
	<b>75</b>	Dedi Sanjaya, Lia Agustina. "Enhancing the EFL Students' Achievement in Writing Descriptive Text through Think-Pair-Share", SALTeL Journal (Southeast Asia Language Teaching and Learning), 2019 Publication	<1%
	76	Kaharuddin, Mardiana, Djuwairiah Ahmad, Al Amini Indah Sari. "Examining the Skill in Writing Descriptive Text Among Indonesian Learners of English: The Effects of Task-Based Language Teaching (TBLT)", Journal of Language Teaching and Research, 2022 Publication	<1%



S Rabbani, S Ruqoyyah, S Murni.

<1%

"Development of basic school mathematic teaching materials to improve the analysis ability of primary teacher education students on innovative learning models", Journal of Physics: Conference Series, 2019

Publication



Talieh Khalifi, Raheleh Bahrami. "The Effect of Psycho-education Program on Resilience in the Caregivers of Clients with Bipolar Disorder", Research Square, 2020

<1%

Publication

Exclude quotes

On

Exclude matches

Off

Exclude bibliography