

## **The Influence of The Relay Writing Method Assisted With Audio Visual Media on Procedure Text Writing Skills in Class VII Students at SMP Negeri 35 Palembang**

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### **Abstract**

This research aims to determine the effect of the relay writing method assisted by audio-visual media on procedural text writing skills in class VII students at Palembang Public Junior School 35.. This type of research is quantitative research that uses simple linear regression testing and multiple linear regression testing to answer the hypothesis in the research. The subjects in this research were class VII.3 as an experimental class with a total of 31 students and class VII.4 as a control class with a total of 33 students. Data collection techniques in this research used documentation and test techniques. Based on the results of testing the first hypothesis, it was found that there was an influence of the application of the relay writing method on the ability to write procedural texts which received a significant value of 0.000. The results of testing the second hypothesis show that there is an influence of the use of audio-visual media on the ability to write procedural texts which gets a significant value of 0.000. The results of testing the third hypothesis prove that there is an influence of applying the relay writing method with the help of the use of audio-visual media on procedural text writing skills which obtained a significant value of 0.000.

**Keywords :** Estafet Writing, Audio Visual, Procedure Text.

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### **Article history**

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### **Introduction**

Education is a learning activity by sharing knowledge and skills carried out by a group from generation to generation. According to (Siregar & et al, 2021) the implementation of good education requires an in-depth study of knowledge about how this knowledge is carried out and applied properly. Therefore, this knowledge must be truly proven to be true and valid. The presence of education has become a common phenomenon in society and has become a benchmark for the development of social civilization in various countries. Indonesia itself has implemented compulsory education

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for its citizens to undertake education for twelve years which has been established since 2015. As stated in (Darmadi, 2019) the levels of education that must be taken include elementary, middle school and high school/vocational school levels.

Procedure text according to (Sari & Nuradiah, 2020) is a type of text that explains the procedures or steps for making or doing something sequentially in order to achieve the expected goals. This type of text generally contains many command sentences that direct the reader to carry out the activities conveyed in the text. In line with this (Aulia, 2022) also stated that procedure text is a text that contains steps or stages that must be carried out in an activity in a structured manner so that it can be realized and get good results. The purpose of this text, apart from providing information, is to make it easier for someone to carry out activities that may be being done for the first time. So this activity certainly requires proper direction in order to achieve the goal.

The way that teachers can maximize the teaching and learning process is by providing innovative learning methods and media. Of the many methods in learning. The relay writing method is the right answer to apply in the learning process, especially to improve students' writing skills. According to (Syathariah, 2011) the relay writing method or commonly known as chain writing is a method that gives students freedom to express and imagine in producing writings produced with their classmates.

Based on the results of observations made by researchers at the school, specifically in class VII at SMP Negeri 35 Palembang, it was discovered that teachers rarely apply innovative learning methods in the learning process. Teachers only focus on conventional methods such as the lecture method which makes students less enthusiastic about learning and minimizes student activity because students are only observers. According to the information obtained, in Indonesian language lessons, especially procedural text material, students tend to only be given note material and also objective test questions. Because of this habit, students are not used to writing and producing procedural text essays due to a lack of understanding and knowledge of the material.

This research is very important to conduct because through the application of relay writing it can encourage collaboration and interaction between students through discussion activities, giving each other input and complementing each other in preparing procedural texts. Apart from that, the application of this method can also be a means not only to provide information, but can also encourage active involvement of students to have great opportunities to understand and relate to the material being taught. The relay writing method is the right answer to enable students to practice their understanding and skills in writing based on the use of appropriate words, sequence of steps, and appropriate grammar in writing procedural texts.

From these various reasons, the researcher found the suitability of the use of the relay writing method, audio-visual media and the implementation of procedural text writing activities which are expected to have a big influence in realizing the expected teaching and learning activities. Therefore, the researcher was ultimately very interested in conducting research with the title "The Influence of the Relay Writing Method Assisted by Audio Visual Media on the Procedural Text Writing Skills of Class VII Students at SMP Negeri 35 Palembang".

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## **Method**

The research method according to (Sugiyono, 2019) is a scientific way to obtain data with specific purposes and uses. According to him, research in the field of education is a scientific way to obtain valid, factual and objective data with the aim of proving or discovering something so that it can be applied to solve problems as an effort to advance the field of education.

In this research, researchers used the type of experimental research stated by (Sugiyono, 2019) as a type of research carried out to determine the effect of independent variables or treatment designs with dependent variables which are the results of research that is under controlled conditions. Meanwhile, (Djaali, 2020) also explains that experimental research is a type of research designed to carry out planned experiments so that the information needed for the thing to be researched can be collected. These two opinions are also supported by another opinion from (Effendi, Padilah, & Damayanti, 2023) who states that the aim of experimental research is to test whether a particular approach, strategy or media has a positive or negative impact on learning activities.

## **Discussion**

To prove the truth of the hypothesis that has previously been formulated by the researcher, it is necessary to test the data according to the needs and characteristics of the data to be tested. There are two types of hypothesis testing that will be carried out, namely the simple linear regression test and the multiple linear regression test as follows.

1) First hypothesis

Ho1: There is no significant influence between the application of the relay writing method on procedural text writing skills.

Ha1: There is a significant influence between the application of the relay writing method on procedural text writing skills.

The first hypothesis testing was carried out using a simple linear regression test to determine the effect of applying the relay writing method (X1) on procedural text writing skills (Y). The equation for the simple linear regression test is:

$$Y = a + bX$$

If the price of b is positive (+), then variable Y will increase. Then, inversely proportional to this statement, if the price of b is negative (-), then variable Y will experience a decrease. The following are the results of a simple linear regression test between variable X1 and variable Y.

Table 4.10. Simple linear regression test results for variable (X1).  
variable (Y)

Model	Unstandardized Coefficients		Standardized Coefficients	T	Sig.	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
1 (Constant)	17.536	6.681		2.625	.014		
Penerapan Metode Estafet Writing	.824	.069	.912	11.943	.000	1.000	1.000

a. Dependent Variable: Kemampuan Menulis Teks Prosedur

(Source: Results of data processing with SPSS 22.0.)

Based on the results of table 4.10. It was found that the constant value of the regression equation  $a = 17.536$  and the coefficient value of the independent variable  $b = 0.824$ , then the regression equation was obtained as follows.

$$Y = a + bx$$

$$= 17.536 + 0.824x$$

As a result, students' ability to write procedural texts has increased positively with the application of the relay writing method. Along with this statement, it can also be concluded that the application of the relay writing method has a significant influence on procedural text writing skills so that the  $H_0$  hypothesis is rejected.

Apart from formulating the hypothesis above, simple linear regression testing can also be carried out using t-tests. With the following criteria. If the probability or significant value is  $< 0.05$ , then  $H_0$  is rejected or the constant/coefficient can be used in the regression equation. The test results can be seen in the following table.

Table 4.11. Results of variable regression test results (X1) against variable (Y)

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	199.773	1	199.773	142.643	.000 <sup>b</sup>
	Residual	40.615	29	1.401		
	Total	240.387	30			

a. Dependent Variable: Kemampuan Menulis Teks Prosedur

b. Predictors: (Constant), Penerapan Metode Estafet Writing

(Source: Results of data processing with SPSS 22.0.)

Based on testing the table, a significant value of 0.000 was obtained, which is smaller than the significant value criteria determined at 0.05, so it can be concluded that  $H_0$  is rejected and this means that there is a significant influence of the application of the relay writing method on the ability to write procedural texts in class VII students at SMP Negeri 35. Palembang. To see how much influence the independent variables simultaneously have on the dependent variable, you can see the model summary below.

Table 4.12. Variable summary model table (X1) Against variable (Y)

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.912 <sup>a</sup>	.831	.825	1.183

a. Predictors: (Constant), Penerapan Metode Estafet Writing

(Source: Results of data processing with SPSS 22.0.)

From the results of the table above, the R-squared value is 0.912, so the coefficient of determination is 91.2% and it can be concluded that the big influence of applying the relay writing method on the ability to write procedural texts in class VII students at SMP Negeri 35 Palembang is 91.2% while 8 The remaining .8% percentage is influenced by other factors outside of the variables in this study.

2) Second hypothesis

Ho2: There is no significant influence between the use of audio -visual media on procedural text writing skills.

Ha2: There is a significant influence between the use of audio -visual media on procedural text writing skills.

Testing the second hypothesis was carried out similarly to testing the previous hypothesis, namely by using a simple linear regression test to determine the influence between the use of audio-visual media (X2) on procedural text writing skills (Y). The equation of the simple linear regression test can be seen in the results of the following table:

Table 4.13. Simple linear regression test results for variable (X2).  
variable (Y)

		Coefficients <sup>a</sup>				Collinearity Statistics		
		Unstandardized Coefficients		Standardized Coefficients	T	Sig.	Tolerance	VIF
Model	B	Std. Error	Beta					
1	(Constant)	18.269	6.439		2.837	.008		
	Penggunaan Media Audio Visual	.818	.067	.916	12.278	.000	1.000	1.000

a. Dependent Variable: Kemampuan Menulis Teks Prosedur

(Source: Results of data processing with SPSS 22.0.)

Based on the results of table 4.13. It was found that the constant value of the regression equation  $a = 18.269$  and the coefficient value of the independent variable  $b = 0.818$ , then the regression equation was obtained as follows.

$$Y = a + bx$$

$$= 18.269 + 0.818x$$

As a result, students' ability to write procedural texts has increased positively with

the use of audio-visual media. Along with this statement, it can also be concluded that the use of audio-visual media has a significant influence on procedural text writing skills so that the  $H_0$  hypothesis is rejected.

Apart from formulating the hypothesis above, simple linear regression testing can also be carried out using t-tests. With the following criteria. If the probability or significant value is  $<0.05$ , then  $H_0$  is rejected or the constant/coefficient can be used in the regression equation. The test results can be seen in the following table.

Table 4.14. Results of variable regression test results ( $X_2$ ) against variable (Y)

ANOVA <sup>a</sup>						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	201.604	1	201.604	150.748	.000 <sup>b</sup>
	Residual	38.783	29	1.337		
	Total	240.387	30			

a. Dependent Variable: Kemampuan Menulis Teks Prosedur

b. Predictors: (Constant), Penggunaan Media Audio Visual

(Source: Results of data processing with SPSS 22.0.)

Based on the examination of the table above, a significant value of 0.000 is obtained, which is smaller than the significant value criteria determined at 0.05, so it can be concluded that  $H_0$  is rejected and this means that there is a significant influence of the use of audio-visual media on the ability to write procedural texts in class VII students at State Middle Schools. 35 Palembang. To see how much influence the independent variables simultaneously have on the dependent variable, you can see the model summary below.

Table 4.15. Variable summary model table ( $X_2$ ) Against variable (Y)

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.916 <sup>a</sup>	.839	.833	1.156

a. Predictors: (Constant), Penggunaan Media Audio Visual

(Source: Results of data processing with SPSS 22.0.)

From the results of the table above, the R-squared value is 0.916, so the coefficient of determination is 91.6% and it can be concluded that the large influence of the use of audio-visual media on the ability to write procedural texts in class VII students at SMP Negeri 35 Palembang is 91.6% while 8 The remaining .4% percentage is influenced by other factors outside of the variables in this study.

### 3) Third hypothesis

$H_{03}$ : There is no significant influence between the application of the relay writing method and the use of audio-visual media on procedural text writing skills.

$H_{a3}$ : There is a significant influence between the application of the relay writing method with the help of the use of audio-visual media on procedural text writing skills.

Different from testing the two previous hypotheses, testing the third hypothesis was

carried out using a multiple linear regression test. This test is carried out if the number of independent variables in the research is more than one, the aim of which is to find out or prove whether or not there is a functional relationship between two or more independent variables on a dependent variable (Kusumawati & Aridanu, 2023). The equation is expressed as

$$Y = a + b_1X_1 + b_2X_2 + \dots + b_nX_n$$

If the price of b is positive, then variable Y will increase. Conversely, if the price of b is negative, then variable Y will decrease. To find out the results of multiple linear regression testing on the three research variables, you can see the following table.

Table 4.16. Results of multiple linear regression test variables (X1) and variable (X2) Against variable (Y)

Coefficients <sup>a</sup>								
Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	14.050	5.934		2.368	.025		
	Penerapan Metode Estafet Writing Penggunaan Media Audio Visual	.413	.143	.457	2.889	.007	.178	5.631
		.448	.141	.502	3.172	.004	.178	5.631

a. Dependent Variable: Kemampuan Menulis Teks Prosedur

(Source: Results of data processing with SPSS 22.0.)

Based on the results of the table above, the constant value of the regression equation a is 14.050 and the coefficient value of the independent variable b1 is 0.413 and the coefficient b2 is 0.448. So the regression value equation can be expressed as follows.

$$Y = Y = a + b_1 X_1 + b_2 X_2$$

$$= 14,050 + 0.413X_1 + 0.448X_2$$

From the regression equation, it can be interpreted that the ability to write procedural texts has increased positively with the application of the relay writing method and the use of audio-visual media.

Apart from formulating the hypothesis above, multiple linear regression testing can also be carried out using t-tests. With the following criteria. If the probability or significant value is <0.05, then Ho is rejected or the constant/coefficient can be used in the regression equation. The test results can be seen in the following table.

Table 4.17. Simultaneous test results of multiple variables (X1) and variable (X2) Against variable (Y)

**ANOVA<sup>a</sup>**

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	210.511	2	105.256	98.648	.000 <sup>b</sup>
	Residual	29.876	28	1.067		
	Total	240.387	30			

a. Dependent Variable: Kemampuan Menulis Teks Prosedur

b. Predictors: (Constant), Penggunaan Media Audio Visual, Penerapan Metode Estafet Writing

(Source: Results of data processing with SPSS 22.0.)

The results of the tests carried out are in table 4.17. The significant value obtained was 0.000 which was smaller than the significant value criterion of 0.05. So it can be concluded that  $H_0$  is rejected, which means that there is a significant influence between the application of the relay writing method with the help of the use of audio visual media on the procedural text writing skills of class VII students at SMP Negeri 35 Palembang. To see how much influence the two independent variables simultaneously have on the dependent variable, you can see the model summary below.

Table 4.18. Model summary table of variables (X1) and variables (X2) against variable (Y).

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.936 <sup>a</sup>	.876	.867	1.033

a. Predictors: (Constant), Penggunaan Media Audio Visual, Penerapan Metode Estafet Writing

(Source: Results of data processing with SPSS 22.0.)

From the results of the table above, the R-squared value is 0.936, so the coefficient of determination is 93.6% and it can be concluded that there is a large influence of applying the relay writing method and using audio-visual media simultaneously on the ability to write procedural texts in class VII students at SMP Negeri 35 Palembang. amounting to 93.6% while the remaining 6.4% percentage was influenced by other factors outside of the variables in this study.

1) The effect of applying the relay writing method on procedure text writing skills.

Based on the test results that the researcher has carried out, namely simple linear regression testing, showing the constant value of the regression equation of  $a = 17.536$  and the coefficient value of the independent variable  $b = 0.824$ , then the regression equation  $Y = a + bx = 17.536 + 0.824$

The results of the regression equation mean that students' ability to write procedural texts has increased positively with the application of the relay writing method. Along with this statement, it can also be concluded that the application of the relay writing method has a significant influence on procedural text writing skills so that the  $H_0$  hypothesis is rejected. In line with the test results, other results are also supported by testing various regressions on the two variables tested, namely the variable of applying the relay writing method (X1) to the skill of writing procedural texts (Y). From the test results, a significant value of 0.000 was obtained, which is smaller than the significant value criterion of  $\alpha = 0.05$ , so it can be



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concluded that  $H_0$  is rejected and this means that there is a significant influence of the application of the relay writing method on the ability to write procedural texts in class VII students in junior high school. Negeri 35 Palembang.

In line with the test results, other results are also supported by testing various regressions on the two variables tested, namely the variable of applying the relay writing method (X1) to the skill of writing procedural texts (Y). From the test results, a significant value of 0.000 was obtained, which is smaller than the significant value criterion of  $\alpha = 0.05$ , so it can be concluded that  $H_0$  is rejected and this means that there is a significant influence of the application of the relay writing method on the ability to write procedural texts in class VII students in junior high school. Negeri 35 Palembang.

In connection with the research results obtained which show significant results in proving the influence of the relay writing method applied, other similar research has also been carried out, namely research conducted by Rosdiana Dina with the title "The Effect of Using the Relay Writing Method (Chain Writing) on the Ability to Write Fantasy Stories "Students of Class VII C of SMPN 2 Donggo for the 2018/2019 Academic Year." The results of this research are considered successful because in the implementation of learning students received a cumulative achievement index (GPA) of 74.82 in the high category with a range of 75-85 (Dina, 2019).

2) The influence of using audio-visual media on procedural text writing skills.

In line with the previous hypothesis, the second hypothesis was also tested in the same way, namely the simple linear regression test. The results of the research carried out obtained that the constant value of the regression equation  $a = 18.269$  and the coefficient value of the independent variable  $b = 0.818$ , so the statement of the regression equation is  $Y = a + bx = 18.269 + 0.818$

In accordance with the results obtained, students' ability to write procedural texts has increased positively with the use of audio-visual media. Along with this statement, it can also be concluded that the use of audio-visual media has a significant influence on procedural text writing skills so that the  $H_0$  hypothesis is rejected.

To support the test results, another test was also carried out which showed a significant value of 0.000, which is smaller than the significant value criteria determined at 0.05 so that it can be concluded that  $H_0$  is rejected and this means that there is a significant influence of the use of audio-visual media on the ability to write procedural texts in class students. VII at SMP Negeri 35 Palembang.

Furthermore, from the results of the model summary table, the R-squared value is 0.916, so the coefficient of determination is 91.6% and it can be concluded that the magnitude of the influence of the use of audio-visual media on the ability to write procedural texts for class VII students at SMP Negeri 35 Palembang is 91.6 % while the remaining 8.4% percentage is influenced by other factors outside of the variables in this study.

The influence of the relay writing method assisted by audio-visual media on procedural text writing skills.

This hypothesis testing is a continuation of the two previous hypotheses. However, different from the two previous hypotheses, this third hypothesis uses multiple linear regression testing to test the linkage or relationship between the two independent variables used and the dependent variable in the research.

Based on the results of the tests that have been carried out, it is found that the constant value of the regression equation  $a$  is 14.050 and the coefficient value of the independent

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variable  $b_1$  is 0.413 and the coefficient  $b_2$  is 0.448. So the regression value equation can be expressed as follows.  $Y = a + b_1$

From the regression equation, it can be interpreted that the ability to write procedural texts has increased positively with the application of the relay writing method and the use of audio-visual media. Apart from formulating the hypothesis above, multiple linear regression testing can also be carried out using t-tests. With the following criteria. If the probability or significant value is  $<0.05$ , then  $H_0$  is rejected or the constant/coefficient can be used in the regression equation.

To determine the percentage of influence of the two variables, the R-squared value obtained from the model summary table is 0.936 so that the coefficient of determination is 93.6% and it can be concluded that the application of the relay writing method and the use of audio-visual media simultaneously have a large influence on the ability to write procedural texts in class VII students at SMP Negeri 35 Palembang amounted to 93.6% while the remaining 6.4% percentage was influenced by other factors outside of the variables in this study.

The results of the tests carried out next also support the regression equation tests carried out previously. From these results, a significant value of 0.000 was obtained, which is smaller than the significant value criterion of 0.05. So it can be concluded that  $H_0$  is rejected, which means that there is a significant influence between the application of the relay writing method with the help of the use of audio-visual media on the procedural text writing skills of class VII students at SMP Negeri 35 Palembang.

## **Conclusion**

1) There is an influence of applying the relay writing method on the ability to write procedural texts in class VII students at SMP Negeri 35 Palembang. This is based on a simple linear regression test which was carried out to obtain a significant value smaller than the specified significant value criteria so that it can be concluded that  $H_0$  is rejected.

2) There is an influence of the use of audio visual media on the ability to write procedural texts in class VII students at SMP Negeri 35 Palembang. This is based on the results of a simple linear regression test which obtained a significant value smaller than the specified significant value criteria so that it can be concluded that  $H_0$  is rejected.

3) There is an influence of applying the relay writing method with the help of the use of audio-visual media on procedural text writing skills in class VII students at SMP Negeri 35 Palembang. This statement is proven by the results of multiple linear regression testing which obtains a significant value that is smaller than the significant value criteria so it can be concluded that  $H_0$  is rejected.

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