

CHAPTER IV

RESEARCH FINDING AND DISCUSSION

This chapter discuss about research finding and discussion. Research finding present the data from the instrument of research that is test and documentation. There are some point in this chapter to be explained, that are presentation of data, hypothesis testing, and discussion of finding.

A. Presentation of Data

As stated in the previous chapter, there are two research problems of this study. The problem are whether any differents in vocabulary mastery between the 8th, who study vocabulary using Google Translation and 8th graders who study vocabulary not using Google Translation in SMPN 2 Larangan and to measure the significant different of vocabulary mastery between the 8th graders, who study vocabulary using google translation in SMPN 2 Larangan.

After collecting data the researcher needs the next is presentation of data. The researcher has to present the data knowing the comparison of both variable as include independent and dependent variable after computing all of the data during the researcher proces as a form a result. The researcher use the test and documentation as instrument to collecting the data. Data will be described is the data that researcher got during the

research process. That is the result of test and documentation data as method to collect data related to variable X (Google translate as media) and variable Y (The 8th graders vocabulary Mastery).

The researcher took sample a the population using two group design (experiment design and control design). So the researcher conducted a t-test on the eight grade students at SMPN 2 Larangan, totaling 59 students consisting of two classes (experiment class and control class). The test given are in the form of pre-test and post-test using instrument of the test.

1. Data Presentation of The Pre Test

In this part, as the researcher stated in the chapter III, the test is uses to measure students vocabulary mastery by google translate application from the score of the test. The form of the test is multiple choice items which consist of 20 question about vocabulary. The researcher give 5 score of correct answer and get 0 score of wrong answer. If the students can answer the questions correctly they get a score of 100. After the students submit the test to the researcher. It was held on 12th October 2021 at 8.00 up to 23th October 2021. The students test score displayed in the table 4 and table 5

Table 4

Result of Pre-Test Score

No	The Correspondent of Experiment Class	Score
1	Adis Sundoro	25
2	Ahmad Mulyadi Rahman	45
3	Alviano Yudis Pratama	45
4	Andini Intan Maulidia	70
5	Ara Aisyatan Nayla	45
6	Bintang Ainul Marduyah	45
7	Bustanul Haykal	35
8	Cantika Dewi Purnamasari	40
9	Dina Ratna Sari	35
10	Fahrur Raihan	20
11	Faijah Fega Agram	40
12	Faizulhaq Rahmani	55
13	Hafiel Pranata Husada	45
14	Imam Fauzi	35
15	Irma Aulia Dwi Hafidatullah	50
16	Jelita Anggun Anggraini	50
17	Kamalia Septi Nur Ramadhani	35
18	Kusharyadi Indra Permana	55
19	Lisa Afkarina	45
20	Maulidina Quddus	45
21	Moh.Ferdiyanto	35
22	Moh.Ardiansyah	35
23	Nabilatus Soleha	40
24	Ragil Firmansyah	45
25	Rizqy Agustini Mayasari	55
26	Syaiful Anam	45

No	The Correspondent of Experiment Class	Score
27	Syarif Fatahillah	40
28	Zulfan Mutazim Billah	55
29	Zulvy Karnain	55
Total of Score		1265

Table 5

Result of Pre-Test Score

No	The Correspondent of Control Class	Score
1	Amelia Legina Yuniati P	55
2	Aryana Diva Krisyulianti	40
3	Asriyatun Aliyah	70
4	Atiqoh basriyah	30
5	Atiqoh sa'adatul qorinah	75
6	Azita qorin	70
7	Bayyinatus sa'diyah	40
8	Bintan nawal auliajinan	65
9	Camelatun nisa	65
10	Didin triana novalul qamariyah	60
11	Dwi ghafiroh qotrun nada	50
12	Fajariyah wildana sulfa	60
13	Fery ardiansyah	65
14	Hessyatin alfafa	60
15	Kharidatul khulayda	40
16	Lailatun nadhifah	50

No	The Correspondent of Control Class	Score
17	Moh. Zayyadi	45
18	Noor jazilatur rohmaniyah	50
19	Normala rezdiawati	60
20	Nufitasari	40
21	Nur khafidatul ainayah	75
22	Rania anindya abdillah	40
23	Rina maulidia safira	75
24	Siti normawati	50
25	Sitti nurjamiatun nahdhifani	65
26	Susila setiaweni	45
27	Syita nisrani naura	80
28	Ulfatun Nabila	50
29	Vania izzatiz Zahra	60
30	Yeni damayanti	45
Total of Score		1675

Based on the table above, it is known that the students are fifty nine. The first column is a number of the students, second column is the name of students and the third column is table of pre-test score. It is found the total t-test students vocabulary mastery is 2940 scores without giving the treatment.

From the table above, there are many various score. In the questionnaire, the highest score of the item are 80 and the lowest score is 20.

2. Data Presentation of Treatment

In this part, the researcher give the treatment after the pre-test. But, before doing the treatment, the researcher has decided which class will be given treatment after the data collection instruments between the experimental class and the control class. The treatment of experiment class with vocabulary teaching techniques using google translate application and the control class using the usual treatment or without using google translate application.

During the treatment for the experiment class, the researcher asked the students to make some groups, then the researcher give a short text containing the news, then the researcher asked the students to read carefully for 10 minutes. After that, the researcher asked the students to write the unfamiliar words for them. In the treatment, the researcher also explained to students how to use or find the meaning of unfamiliar vocabulary them, and examples of using word and spelling of words by the google translate application. The experiment class used the google translate application when doing the treatment and doing the post-test. The control class, using a manual dictionary. The researcher give treatment in 2 meetings.

3. The Presentation of Post – Test

After the researcher giving treatment using google translate application on two days. The researcher conducted post – test in testing students vocabulary mastery to collect scores after treatment. The post-test scores re presented in the following table 6 and 7 :

Table 6

Result of Post-Test Score

No	The Correspondent of Experiment Class	Score
1	Adis Sundoro	90
2	Ahmad Mulyadi Rahman	95
3	Alviano Yudis Pratama	95
4	Andini Intan Maulidia	100
5	Ara Aisyatan Nayla	100
6	Bintang Ainul Marduyah	90
7	Bustanul Haykal	100
8	Cantika Dewi Purnamasari	95
9	Dina Ratna Sari	100
10	Fahrur Raihan	90
11	Faijah Fega Agram	100
12	Faizulhaq Rahmani	90
13	Hafiel Pranata Husada	95
14	Imam Fauzi	100
15	Irma Aulia Dwi Hafidatullah	100
16	Jelita Anggun Anggraini	90
17	Kamalia Septi Nur Ramadhani	95
18	Kusharyadi Indra Permana	100

No	The Correspondent of Experiment Class	Score
19	Lisa Afkarina	95
20	Maulidina Quddus	100
21	Moh.Ferdiyanto	85
22	Moh.Ardiansyah	90
23	Nabilatus Soleha	100
24	Ragil Firmansyah	90
25	Rizqy Agustini Mayasari	90
26	Syaiful Anam	85
27	Syarif Fatahillah	100
28	Zulfan Mutazim Billah	95
29	Zulvy Karnain	90
Total of Score		2745

Table 7

Result of Post-Test Score

No	The Correspondent of Control Class	Score
1	Amelia Legina Yuniati P	85
2	Aryana Diva Krisyulianti	85
3	Asriyatun Aliyah	80
4	Atiqoh basriyah	75
5	Atiqoh sa'adatul qorinah	85
6	Azita qorin	80
7	Bayyinatus sa'diyah	85
8	Bintan nawal auliajinan	85
9	Camelatun nisa	85
10	Didin triana novalul qamariyah	80
11	Dwi ghafiroh qotrun nada	75
12	Fajariyah wildana sulfa	80

No	The Correspondent of Control Class	Score
13	Fery ardiansyah	80
14	Hessyatin alfafa	70
15	Kharidatul khulayda	90
16	Lailatun nadhifah	70
17	Moh. Zayyadi	90
18	Noor jazilatur rohmaniyah	75
19	Normala rezdiawati	80
20	Nufitasari	75
21	Nur khafidatul ainiyah	85
22	Rania anindya abdillah	80
23	Rina maulidia safira	80
24	Siti normawati	80
25	Sitti nurjamiatun nahdhifani	90
26	Susila setiaweni	80
27	Syita nistrani naura	80
28	Ulfatun Nabila	70
29	Vania izzatiz Zahra	90
30	Yeni damayanti	85
Total of Score		2430

Based on the table above, it is known that the students are fifty nine. The first column is a number of the students, second column is the name of students and the third column is table of post-test score. It is found the total t-test students vocabulary mastery is 5175 scores after the researcher giving the treatment.

From the table above, there are many various score. In the questionnaire, the highest score of the item are 100 and the lowest score is 70.

4. Data Presentation of Documentation

As the researcher stated in the previous chapter that documentation is collecting data concerning variable from document, book, transcript, magazine and the others. The documentation of this research are as follow:

a. Students “name list”

1. The eight grade students of VIII – B for experiment class consist of 29 students name list of SMPN 2 Larangan.

Table 8

Students Name List

No	Name of Students Experiment Class
1	Adis Sundoro
2	Ahmad Mulyadi Rahman
3	Alviano Yudis Pratama
4	Andini Intan Maulidia
5	Ara Aisyatan Nayla
6	Bintang Ainul Marduyah
7	Bustanul Haykal
8	Cantika Dewi Purnamasari
9	Dina Ratna Sari
10	Fahrur Raihan
11	Faijah Fega Agram
12	Faizulhaq Rahmani

No	Name of Students Experiment Class
13	Hafiel Pranata Husada
14	Imam Fauzi
15	Irma Aulia Dwi Hafidatullah
16	Jelita Anggun Anggraini
17	Kamalia Septi Nur Ramadhani
18	Kusharyadi Indra Permana
19	Lisa Afkarina
20	Maulidina Quddus
21	Moh.Ferdiyanto
22	Moh.Ardiansyah
23	Nabilatus Soleha
24	Ragil Firmansyah
25	Rizqy Agustini Mayasari
26	Syaiful Anam
27	Syarif Fatahillah
28	Zulfan Mutazim Billah
29	Zulvy Karnain

2. The eight grade students of VIII – E for control class consist of 30 students name list of SMPN 2 Larangan.

Table 9
Students Name List

No	Name of Students Control Class
1	Amelia Legina Yuniati P
2	Aryana Diva Krisyulianti
3	Asriyatun Aliyah
4	Atiqoh Basriyah

No	Name of Students Control Class
5	Atiqoh Sa'adatulqorinah
6	Azita Qorin
7	Bayyinatus sa'diyah
8	Bintan Nawal Auliajanan
9	Camelaton Nisa
10	Didin Triana Novalul Qamariyah
11	Dwi Ghafiroh Qotrunnada
12	Fajariyah Wildana Sulfa
13	Fery Ardiansyah
14	Hessyatin Alfafa
15	Kharidatul Khulayda
16	Lailatun Nadhifah
17	Moh. Zayyadi
18	Noor Jazilaturrohmaniyah
19	Normala Rezdiawati
20	Nufitasari
21	Nur Khafidatul Ainiyah
22	Rania Anindya Abdillah
23	Rina Maulidiasafira
24	Siti Normawati
25	Sitti Nurjamiatunnahdhifani
26	Susila Setiaweni
27	Syita Nisraninaura
28	Ulfatun Nabila
29	Vania Izzatiz Zahra
30	Yeni Damayanti

b. Pictures when carrying out the test

1. Experiment Group



2. Control Group



5. Validity of questioner

The validity used to measure how far the instrument especially questioner instrument valid or not . Because the variable on the data that going to research research is about google translate as media and vocabulary mastery. So to know the questioners valid or not the researcher uses construct validity, because focus on test scores as a measure of psychological construct such as intelligence, motivation, anxiety, critical thinking are hypothetical qualities or characteristic that have been constructed to account for observed behavior¹

The researcher will present the coefficient value of correlation “r” product moment, that is:

Table 10

Table of coefficient value of correlation “r” product moment²

	The distribution value r_{table}
Significance	5%
N	57
r_{table}	0,256

To test validity of questioner. The researcher uses SPSS 25 that is :

¹ Donald Ary et al., *Introduction to Research in Education*, 8th ed (Belmont, CA: Wadsworth, 2010), 225.

² Tim Penyusun Bidang Kajian dan Inovasi Administrasi Negara, *Processing Data Penelitian Menggunakan SPSS*, 56, accessed form “Modul-SPSS.pdf” <http://aceh.lan.go.id> on the 28th October 2021, at 17.30 pm.

Table 11

Calculation of The Pre-Test Score ³

		Correlations																				
		x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18	x19	x20	skorstotal
x1	Pearson Correlatobn	1	-.046	.105	-.196	-.016	.051	.193	.275*	.265*	-.058	-.119	.242	1.000*	-.118	.022	-.121	.147	.196	-.121	.070	.507**
	Sig (2-tailed)		.730	.430	.137	.904	.704	.143	.035	.043	.664	.370	.064	.000	.371	.867	.363	.268	.137	.363	.600	.000
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x2	Pearson Correlatobn	-.046	1	-.079	.158	.153	.007	-.015	.099	.169	-.053	.106	.015	-.046	-.149	.267*	-.190	-.297*	-.158	.015	.070	.195
	Sig (2-tailed)	.730		.550	.233	.246	.958	.910	.456	.201	.689	.424	.910	.730	.258	.041	.150	.023	.233	.910	.597	.139
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x3	Pearson Correlatobn	.105	-.079	1	.015	-.152	.173	.091	-.167	.219	-.132	.131	.118	.105	-.069	.037	-.160	-.064	-.088	-.091	-.018	.184
	Sig (2-tailed)	.430	.550		.911	.250	.191	.494	.207	.095	.320	.325	.374	.430	.604	.783	.225	.832	.506	.494	.893	.163
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x4	Pearson Correlatobn	-.196	.158	.015	1	-.008	.061	.131	.209	-.086	-.141	.086	.155	-.196	-.132	.083	.084	-.107	-.244	-.131	-.038	.133
	Sig (2-tailed)	.137	.233	.911		.953	.647	.322	.113	.519	.288	.519	.240	.137	.319	.533	.528	.420	.063	.322	.775	.315
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x5	Pearson Correlatobn	-.016	.153	-.152	-.008	1	.056	.136	-.024	-.005	-.046	.005	.158	-.016	-.001	.018	-.136	-.040	.163	.158	-.028	.249
	Sig (2-tailed)	.904	.246	.250	.953		.672	.304	.856	.970	.732	.970	.231	.904	.992	.895	.304	.764	.216	.231	.835	.057
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x6	Pearson Correlatobn	.051	.007	.173	.061	.056	1	.223	.001	.130	.114	.144	.186	.051	.103	.024	-.223	.013	.155	-.018	-.107	.404**
	Sig (2-tailed)	.704	.958	.191	.647	.872		.090	.993	.326	.388	.276	.159	.704	.438	.855	.090	.924	.242	.890	.418	.002
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x7	Pearson Correlatobn	.193	-.015	.091	.131	.136	.223	1	.262*	.220	-.164	.053	.967**	.193	-.118	.118	.085	-.084	-.131	-.051	.255	.638**
	Sig (2-tailed)	.143	.910	.494	.322	.304	.090		.045	.094	.213	.889	.000	.143	.374	.375	.522	.527	.322	.704	.052	.000
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x8	Pearson Correlatobn	.275*	.099	-.167	.209	-.024	.001	.262*	1	-.029	-.033	.377**	.290*	.275*	-.096	.276*	.014	-.027	-.136	-.124	.082	.475**
	Sig (2-tailed)	.035	.456	.207	.113	.856	.993	.045		.825	.804	.003	.026	.035	.470	.034	.916	.840	.305	.349	.539	.000
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x9	Pearson Correlatobn	.265*	.169	.219	-.086	-.005	.130	.220	-.029	1	-.303*	.031	.258*	.265*	-.201	-.130	-.015	-.045	.230	-.083	-.001	.356**
	Sig (2-tailed)	.043	.201	.095	.519	.970	.326	.094	.825		.020	.813	.048	.043	.128	.326	.910	.734	.080	.530	.993	.006
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x10	Pearson Correlatobn	-.058	-.053	-.132	-.141	-.046	.114	-.164	-.033	-.303*	1	-.053	-.190	-.058	-.132	.028	-.119	.281*	-.084	.164	.007	.004
	Sig (2-tailed)	.664	.689	.320	.288	.732	.388	.213	.804	.020		.689	.150	.664	.320	.835	.370	.031	.529	.213	.956	.977
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x11	Pearson Correlatobn	-.119	.106	.131	.086	.005	.144	.053	.377**	.031	-.053	1	.015	-.119	-.079	.130	.083	-.092	-.230	-.053	.001	.274*
	Sig (2-tailed)	.370	.424	.325	.519	.970	.276	.689	.003	.813	.689		.910	.370	.550	.326	.530	.490	.080	.689	.993	.036
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x12	Pearson Correlatobn	.242	.015	.118	.155	.158	.186	.967**	.290*	.258*	-.190	.015	1	.242	-.091	.155	.051	-.052	-.084	-.085	.226	.677**
	Sig (2-tailed)	.064	.910	.374	.240	.231	.159	.000	.026	.048	.150	.910		.064	.494	.242	.704	.697	.528	.522	.086	.000
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x13	Pearson Correlatobn	1.000*	-.046	.105	-.196	-.016	.051	.193	.275*	.265*	-.058	-.119	.242	1	-.118	.022	-.121	.147	.196	-.121	.070	.507**
	Sig (2-tailed)	.000	.730	.430	.137	.904	.704	.143	.035	.043	.664	.370	.064		.371	.867	.363	.268	.137	.363	.600	.000
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x14	Pearson Correlatobn	-.118	-.149	-.069	-.132	-.001	.103	-.118	-.096	-.201	-.132	-.079	-.091	-.118	1	-.173	-.021	.006	.132	.118	-.159	-.056
	Sig (2-tailed)	.371	.258	.604	.319	.992	.438	.374	.470	.128	.320	.550	.494	.371		.191	.873	.965	.319	.374	.230	.672
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x15	Pearson Correlatobn	.022	.267*	.037	.083	.018	.024	.118	.276*	-.130	.028	.130	.155	.022	-.173	1	-.050	-.081	-.155	.018	.039	.315*
	Sig (2-tailed)	.867	.041	.783	.533	.895	.855	.375	.034	.326	.835	.326	.242	.867	.191		.709	.543	.242	.890	.772	.015
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x16	Pearson Correlatobn	-.121	-.190	-.160	.084	-.136	-.223	.085	.014	-.015	-.119	.083	.051	-.121	-.021	-.050	1	.288*	-.227	.051	-.049	.052
	Sig (2-tailed)	.363	.150	.225	.528	.304	.090	.522	.916	.910	.370	.530	.704	.363	.873	.709		.027	.084	.704	.713	.896
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x17	Pearson Correlatobn	.147	-.297*	-.064	-.107	-.040	.013	-.084	-.027	-.045	.281*	-.092	-.052	.147	.006	-.081	.288*	1	.035	-.323*	-.421**	.051
	Sig (2-tailed)	.268	.023	.832	.420	.764	.924	.527	.840	.734	.031	.490	.697	.268	.965	.543	.027		.791	.012	.001	.899
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x18	Pearson Correlatobn	.196	-.158	-.088	-.244	.163	.155	-.131	-.136	.230	-.084	-.230	-.084	.196	.132	-.155	-.227	.035	1	.059	-.324*	.130
	Sig (2-tailed)	.137	.233	.506	.063	.216	.242	.322	.305	.080	.529	.080	.528	.137	.319	.242	.084	.791		.855	.012	.731
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x19	Pearson Correlatobn	-.121	.015	-.091	-.131	.158	-.018	-.051	-.124	-.083	.164	-.053	-.085	-.121	.118	.018	.051	-.323*	.059	1	.294*	.130
	Sig (2-tailed)	.363	.910	.494	.322	.231	.890	.704	.349	.530	.213	.689	.522	.363	.374	.890	.704	.012	.855		.024	.326
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x20	Pearson Correlatobn	.070	.070	-.018	-.038	-.028	-.107	.255	.082	-.001	.007	.001	.226	.070	-.159	.039	-.049	-.421**	-.324*	.294*	1	.186
	Sig (2-tailed)	.600	.597	.893	.775	.835	.418	.052	.539	.993	.956	.993	.086	.600	.230	.772	.713	.001	.012	.024		.157
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
skorstotal	Pearson Correlatobn	.507**	.195	.184	.133	.249	.404**	.638**	.475**	.356**	.004	.274*	.677**	.507**	-.056	.315*	.052	.051	.046	.130	.186	1
	Sig (2-tailed)	.000	.139	.163	.315	.057	.002	.000	.000	.006	.977	.036	.000	.000	.672	.015	.696	.899	.731	.326	.157	
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59

*. Correlation is significant at the 0.05 level (2-tailed).
 **. Correlation is significant at the 0.01 level (2-tailed).

³ See on appendix

Table 12

Calculation of The Post-Test Score⁴

		Correlations																				
		x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16	x17	x18	x19	x20	skors
x1	Pearson Correlation	1	.207	-.057	-.040	-.170	-.093	-.137	-.102	.040	.126	.057	-.102	.279*	-.102	.323*	-.015	.167	.235	.040	-.146	.236
	Sig (2-tailed)		.116	.668	.764	.199	.485	.299	.440	.763	.342	.667	.440	.032	.440	.013	.911	.207	.073	.763	.271	.072
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x2	Pearson Correlation	.207	1	-.043	-.030	.052	-.070	.101	-.078	.116	-.070	.134	-.078	-.043	.177	-.111	-.123	.087	.134	-.098	-.111	.162
	Sig (2-tailed)	.116		.744	.819	.694	.596	.446	.558	.380	.596	.313	.558	.744	.179	.403	.353	.511	.313	.459	.403	.221
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x3	Pearson Correlation	-.057	-.043	1	-.025	-.104	-.057	.165	.247	-.079	-.057	.473**	-.063	-.035	-.063	.151	-.100	-.090	.199	-.079	.151	.221
	Sig (2-tailed)	.668	.744		.853	.431	.668	.212	.059	.550	.668	.000	.635	.792	.635	.254	.453	.499	.130	.550	.254	.092
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x4	Pearson Correlation	-.040	-.030	-.025	1	-.073	-.040	-.059	-.044	-.056	.432**	-.052	-.044	-.025	-.044	-.063	-.070	-.063	-.052	-.056	-.063	-.035
	Sig (2-tailed)	.764	.819	.853		.581	.764	.655	.740	.675	.001	.696	.740	.853	.740	.636	.599	.636	.696	.675	.636	.794
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x5	Pearson Correlation	-.170	.052	-.104	-.073	1	-.170	-.040	.076	-.126	-.170	-.105	-.188	-.104	-.188	-.165	.184	.040	.012	.096	.244	.129
	Sig (2-tailed)	.199	.694	.431	.581		.199	.766	.567	.342	.199	.431	.155	.431	.155	.213	.163	.764	.929	.471	.062	.331
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x6	Pearson Correlation	-.093	-.070	-.057	-.040	-.170	1	-.137	.099	.040	-.093	.057	-.102	-.057	.099	.167	-.162	-.146	.057	-.129	.167	.060
	Sig (2-tailed)	.485	.596	.668	.764	.199		.299	.456	.763	.485	.667	.440	.668	.456	.207	.221	.271	.667	.330	.207	.651
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x7	Pearson Correlation	-.137	.101	.165	-.059	-.040	-.137	1	-.152	.185	.349**	.217	.296*	-.085	.446**	-.100	-.022	-.100	-.179	.060	-.100	.324*
	Sig (2-tailed)	.299	.446	.212	.655	.766	.299		.250	.160	.007	.099	.023	.524	.000	.450	.868	.450	.175	.654	.450	.012
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x8	Pearson Correlation	-.102	-.078	.247	-.044	.076	.099	-.152	1	-.143	-.102	.031	-.113	-.063	.072	.127	-.179	-.161	.031	.013	-.017	.073
	Sig (2-tailed)	.440	.558	.059	.740	.567	.456	.250		.281	.440	.818	.393	.635	.586	.338	.175	.223	.818	.921	.898	.582
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x9	Pearson Correlation	.040	.116	-.079	-.056	-.126	.040	.185	-.143	1	.040	.520**	.169	.181	.325*	.160	-.112	.160	-.030	-.180	.160	.460**
	Sig (2-tailed)	.763	.380	.550	.675	.342	.763	.160	.281		.763	.000	.200	.170	.012	.226	.399	.226	.820	.173	.226	.000
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x10	Pearson Correlation	.126	-.070	-.057	.432**	-.170	-.093	.349**	-.102	.040	1	-.121	.300*	-.057	.300*	.011	-.015	.167	.057	.379**	-.146	.377**
	Sig (2-tailed)	.342	.596	.668	.001	.199	.485	.007	.440	.763		.363	.021	.668	.021	.937	.911	.207	.667	.003	.271	.003
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x11	Pearson Correlation	.057	.134	.473**	-.052	-.105	.057	.217	.031	.520**	-.121	1	-.133	-.074	.194	.192	-.091	-.062	-.012	-.168	-.062	.353**
	Sig (2-tailed)	.667	.313	.000	.696	.431	.667	.099	.818	.000	.363		.314	.577	.140	.146	.493	.638	.927	.203	.638	.006
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x12	Pearson Correlation	-.102	-.078	-.063	-.044	-.188	-.102	.296*	-.113	.169	.300*	-.133	1	-.063	.443**	.127	-.179	.127	-.133	.013	-.017	.235
	Sig (2-tailed)	.440	.558	.635	.740	.155	.440	.023	.393	.200	.021	.314		.635	.000	.338	.175	.338	.314	.921	.898	.073
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x13	Pearson Correlation	.279*	-.043	-.035	-.025	-.104	-.057	-.085	-.063	.161	-.057	-.063	1	-.063	.151	-.100	-.090	.199	-.079	.151	.113	
	Sig (2-tailed)	.032	.744	.792	.853	.431	.668	.524	.635	.170	.668	.577	.635		.635	.254	.453	.499	.130	.550	.254	.395
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x14	Pearson Correlation	-.102	.177	-.063	-.044	-.188	.099	.446**	.072	.325*	.300*	.194	.443**	-.063	1	-.017	-.179	-.017	-.133	.013	-.161	.365**
	Sig (2-tailed)	.440	.179	.635	.740	.155	.456	.000	.586	.012	.021	.140	.000	.635		.898	.175	.898	.314	.921	.223	.005
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x15	Pearson Correlation	.323*	-.111	.151	-.063	-.165	.167	-.100	.127	.160	.011	.192	.127	.151	-.017	1	-.254	-.006	.319*	-.082	-.006	.351**
	Sig (2-tailed)	.013	.403	.254	.636	.213	.207	.450	.338	.226	.937	.146	.338	.254	.898		.052	.966	.014	.537	.966	.006
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x16	Pearson Correlation	-.015	-.123	-.100	-.070	.184	-.162	-.022	-.179	-.112	-.015	-.091	-.179	-.100	-.179	-.254	1	.376**	-.091	.457**	.166	.214
	Sig (2-tailed)	.911	.353	.453	.599	.163	.221	.868	.175	.399	.911	.493	.175	.453	.175	.052		.003	.493	.000	.210	.104
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x17	Pearson Correlation	.167	.087	-.090	-.063	.040	-.146	-.100	-.161	.160	.167	-.062	.127	-.090	-.017	-.006	.376**	1	.192	.160	.106	.427**
	Sig (2-tailed)	.207	.511	.499	.636	.764	.271	.450	.223	.226	.207	.638	.338	.499	.898	.966	.003		.146	.226	.424	.001
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x18	Pearson Correlation	.235	.134	.199	-.052	.012	.057	-.179	.031	-.030	.057	-.012	-.133	.199	-.133	.319*	-.091	.192	1	.107	.192	.382**
	Sig (2-tailed)	.073	.313	.130	.696	.929	.667	.175	.818	.820	.667	.927	.314	.130	.314	.014	.493	.146		.418	.146	.003
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x19	Pearson Correlation	.040	-.098	-.079	-.056	.096	-.129	.060	.013	-.180	.379**	-.168	.013	-.079	.013	-.082	.457**	.160	.107	1	.039	.351**
	Sig (2-tailed)	.763	.459	.550	.675	.471	.330	.654	.921	.173	.003	.203	.921	.550	.921	.537	.000	.226	.418		.769	.006
	N	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
x20	Pearson Correlation	-.146	-.111	.151	-.063	.244	.167	-.100	-.017	.160	-.146	-.062	-.017	.151	-.161	-.006	.166	.106	.192	.039	1	.351**
	Sig (2-tailed)	.271	.403	.254	.636	.062	.207	.450	.898	.226	.271	.638	.898	.254	.223	.966	.210	.424	.146	.769		

Based on the table 11 and 12, in order to consult to t-value on the level of significance 5%. Obviously in df-57, t-value that can be obtained in t-table in the level significance 5% is 0,256. If t-value is lower than t-table, the question is not valid. But, if t-value is higher than t-table the question is valid. Therefore, there are nine question is valid because t-value is higher than t-table. In post-test there are ten question is valid because t-value is higher than t-table.

6. Reliability of questioner

To know the reliability of the questioner, the researcher used the alpha cronbach formula to measure whether the questioner was reliable or not. we must know the level of significance and r_{table} that is :

Table 13

Table of coefficient value of correlation “r” product moment⁵

	The distribution value r_{table}
Significance	5%
N	57
r_{table}	0,256

To measure the reliability of the questioner, the researcher used SPSS 25 to make the researcher easier and decimate misinterpretation, are as follows:

⁵ Tim Penyusun Bidang Kajian dan Inovasi Administrasi Negara, *Processing Data Penelitian Menggunakan SPSS*, 56, accessed form “Modul-SPSS.pdf” <http://aceh.lan.go.id> on the 28th October 2021, at 17.30 pm.

Table 14

Reliability of Pre-Test

Case Processing Summary

		N	%
Cases	Valid	59	100,0
	Excluded ^a	0	,0
	Total	59	100,0

a. Listwise deletion based on all variables in the procedure.

Table 15

Reliability Statistics

Cronbach's Alpha	N of Items
,312	20

Table 16

Item-Total Statistics				
	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
x1	46,44	146,596	,355	,222
x2	47,63	165,824	,005	,323
x3	47,88	166,555	-,003	,325
x4	48,14	169,740	-,049	,336
x5	48,31	162,595	,074	,303
x6	47,54	152,046	,226	,257
x7	47,29	136,485	,502	,166

x8	47,80	147,648	,309	,232
x9	47,03	155,275	,174	,273
x10	46,61	177,966	-,177	,370
x11	47,63	160,652	,086	,299
x12	47,37	133,928	,550	,149
x13	46,44	146,596	,355	,222
x14	47,88	182,072	-,237	,387
x15	47,12	157,934	,129	,287
x16	47,37	175,307	-,139	,363
x17	47,46	175,321	-,139	,363
x18	46,53	175,219	-,135	,359
x19	47,37	170,134	-,062	,342
x20	46,95	166,394	-,003	,325

r

Based on the output, the researcher get the reability of pre-test score = 0,312. To know the reability of the test, it is reliable or not, the researcher compare the value of r_o and r_{table} . According to level significance 5%, the critical value in r_{table} is 0,256, because coefficient Alpha that 0,312 are significantly higher than r_{table} ($0,312 < 0,256$). So the researcher states the data in pre-test are reliable.

Table 17

Reliability of Post-Test

Case Processing Summary			
		N	%
Cases	Valid	59	100,0
	Excluded ^a	0	,0
	Total	59	100,0

a. Listwise deletion based on all variables in the procedure.

Table 18

Reliability Statistics	
Cronbach's Alpha	N of Items
,322	20

Table 19

Item-Total Statistics				
	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
x1	83,14	72,326	,077	,313
x2	82,97	74,240	,035	,321
x3	82,88	73,451	,119	,308
x4	82,80	76,958	-,109	,336
x5	83,90	75,921	-,117	,385
x6	83,14	76,636	-,100	,355
x7	83,56	69,009	,113	,302
x8	83,22	76,520	-,101	,358
x9	83,47	64,874	,273	,249
x10	83,14	68,878	,227	,276
x11	83,39	68,483	,164	,287
x12	83,22	72,209	,062	,317
x13	82,88	75,175	,008	,325
x14	83,22	68,761	,200	,280
x15	83,64	67,957	,134	,294
x16	83,81	72,706	-,026	,351
x17	83,64	65,371	,218	,264
x18	83,39	67,621	,195	,277
x19	83,47	68,323	,151	,290
x20	83,64	67,957	,134	,294

From the output, the researcher get the reability of post-test score = 0,322. To know the reability of the test, it is reliable or not, the researcher compare the value of r_o and r_{table} . According to level

significance 5%, the critical value in r_{table} is 0,256, because coefficient Alpha that 0,322 are significantly higher than r_{table} ($0,322 < 0,256$). So the researcher states the data in pre-test are reliable.

7. Data Analysis

After measuring the validity and reliability of the instrument, the researcher need to analyze the score to statistical form. To analyze the data, researcher used independent t-test to analyze post-test score. Before it, the researcher testing the hypothesis.

a. Hypothesis Testing

Hypothesis are statement in quantitative research in which the investigator makes a prediction about the outcome of relationship among attributes or characteristic.⁶ It present as a researchers expectation about the variables within the question. There are two type of hypothesis: Null hypothesis (H_0) and Alternative hypothesis (H_a). Hypothesis testing can be tested by using independent sample t-test. Independent t-test is design to determine whether there is a significant difference in vocabulary mastery between students using application using google translate and students not using google translate. The statistical hypothesis as follow:

H_a : There is no any difference in vocabulary mastery between the 8th graders, who study vocabulary using google translate and 8th graders who study not using google translate in SMPN 2 Larangan

⁶ John W Creswell, Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research, 111

Hasil Belajar	Equal variances assumed	,154	,697	9,697	57	,000	13,655	1,408	10,835	16,475
	Equal variances not assumed			9,722	56,284	,000	13,655	1,405	10,842	16,469

based on the table 21 result of independent sample t-test on levene's test for equality of variances the sig values is $0,697 > 0,05$ and t_0 is 9,722, df (degree of freedom) is 57, and sig (2-tailed) is 0,000.

After t_0 is 9,722 then compare with t-value in the t-table 0,256, the researched stated that null hypothesis (H_0) is rejected and alternative hypothesis (H_a) is accepted because $t_0 > t_t$ ($9,722 > 0,256$)

Finally the researcher concluded that alternative hypothesis is accepted. So, this research conclude that there is significant the effect google translate application on the 8th graders vocabulary mastery in SMPN 2 Larangan.

B. Discussion of Finding

In this research, there are two research problem that the researcher wants to research, as follows:

1. Is there any different in vocabulary mastery between the 8th graders, who study vocabulary using Google Translate Application and not using it.

Based on the data above, the results of this research that analyzing by using statistical analysis showed that there is Effect Google Translate

Application on the 8th graders Vocabulary Mastery in SMPN 2 Larangan. It is proved by comparing the result of t_0 with t_t . The result of $t_0 = 9,722$ and then compare with $t_t = 0,256$. The researcher state the that null hypothesis (H_0) is rejected and alternative hypothesis (H_a) is accepted because $t_0 > t_t$ ($9,722 > 0,256$)

The answer of this research problem is that there is different of google translate application on the 8th graders vocabulary mastery in SMPN 2 Larangan.

2. The significant different in vocabulary mastery between the 8th graders, who study vocabulary using google translate application.

In this research, there is effect google translate application on vocabulary mastery for the 8th graders students of SMPN 2 Larangan. It is proved by the result of $t_0 = 9,722$ and the value in $t_{table} = 0,256$. The result analyzing the data presents that t_0 is higher than t_{table} .

To know how the significances of effect google translate application on the vocabulary mastery, the researcher determine df (degree of freedom) by formula $df = N - nr$ as the discussed above the number of participants ($N = 59$). So , the degree of freedom is calculated $59 - 2 = 57$. in order to consult t-value on the level significance 5%. Obviously, in $df = 57$, t-value that can be obtained in t-table is 0,256. After $t_0 = 9,722$, then compare with t-value in t-table is 0,256. The researcher stated that there is strong significant different of the vocabulary mastery.

