

CHAPTER IV

RESEARCH FINDING AND DISCUSSION

In this chapter, the researcher presents and analyzes the data that was collected from the research. The researcher discusses the finding and answer the problem about research finding collected by the researcher. Then, the reseacher analyzes it and answer the question. That is the effect of KWL strategy to students' competence at SMP Negeri 1 Kemlagi. The researcher presents with calculating statistic that is taken from the result of students' score. She gives pretest and post test to students.

A. Finding

The researcher focuses on the effect of KWL strategy to students' competence at SMP Negeri 1 Kemlagi. The researcher analyzes and presents the finding with calculating statistic that is taken from the result of students' score. She gave students pretest and post test with the same text and question.

1. The students' score between pretest and post test

Tabel that is in this point is about students' score of pretest and posttest. It is used to get the mean score of both of group.

Tabel 4.1
The Calculation Score Between Pretest and Post Test Of
Experimental Group

No.	No. Induct	Name	Gender	Pretest X₁	Post Test X₂
1.	6984	Ach. Yani	L	60	100
2.	6985	Adhi Latiful Fatiq	L	60	80
3.	6986	Alfarizi Kurniawan L.	L	100	80
4.	6987	Ananto Fahrizal	L	40	60
5.	6988	Andi Setiawan	L	40	100
6.	6989	Anggi Prayoga	L	40	100
7.	6990	Dimas Mahendra	L	40	80
8.	6991	Dwi Puspita Arum	P	80	60
9.	6992	Ega Edvanurusyifa H.	L	60	60
10.	6993	Egar Meifardha L. M	L	80	60
11.	6994	Ely Yesica Asri P.	P	60	80
12.	6995	Faisyalsyah Alam	L	40	100
13.	6996	Fitra Anggara	L	60	100
14.	6997	Frety Eka Febriyanti	P	70	100
15.	6998	Gefinda Ramadhani	P	80	80
16.	6999	Kusnia Tri Varadita	P	80	80
17.	7000	Ludya Ayu Pratiwi	P	60	60
18.	7001	Masrurin Mardiana	P	40	80
19.	7002	Muh. Rizki Pratama	L	60	100
20.	7003	Muh. Supriyanto	L	60	100
21.	7004	Oky Yayan Febrata	L	80	100
22.	7005	Olivia Dwi Rizka N. W	P	70	100

23.	7006	Prika Dyah Indriani	P	40	80
24.	7007	Rafika Putri Azizah	P	80	100
25.	7008	Randi Sumagera	L	100	100
26.	7009	Ratna Sari Dwi P. A	P	80	100
27.	7010	Thuroihan Aminulloh	L	80	100
28.	7011	Vera Selvia	P	40	80
29.	7012	Wahyu Bagus A.	L	80	100
30.	7013	Waris Yulianto	L	100	100
31.	7014	Winda Dwi Purwati	P	60	80
32.	7015	Yeni Kumala Sari	P	40	80
		TOTAL		2060	2780
		MEAN		$\bar{x}_1 = 64,375$	$\bar{x}_2 = 86,875$

Tabel 4.2

**The Calculation Score Between Pretest and Post Test Of
Control Group**

No.	No. Induct	Name	Gender	Pretest y ₁	Post Test y ₂
1.		Agung Setiawan	L	80	80
2.		Ahmad Al Haris	L	60	40
3.		Ahmad Faqih	L	40	80
4.		Andre Halim P.	L	60	40
5.		Anguildi A.M.S	L	80	80
6.		Bagus Eka F.	L	60	60
7.		Chelya Ayu A.	P	80	80

8.		Dewi Indah A.	P	80	60
9.		Deasy Arisandi	P	80	60
10.		Dina Havianti P.	P	20	40
11.		Dinar Fitriani	P	100	60
12.		Dinda Tri R.	P	40	80
13.		Havest Farhan E.	L	40	40
14.		Ian Gita R.	P	100	80
15.		Imam Syafi'i	L	100	80
16.		Indie Bayu P.	L	80	60
17.		Khosi Ummatul K.	P	40	80
18.		Kriswantoro	L	60	80
19.		Moh. Firman A.	L	80	80
20.		Moch. Firmansyah	L	40	40
21.		Moch. Ainur R.	L	80	60
22.		M. Mikhalludin	L	40	40
23.		M. Zainul M.	L	60	80
24.		Nia Agus T.	P	80	60
25.		Nur Lailatul M.	P	40	80
26.		Nuril Trisniawati	P	40	80
27.		Nurul Hidayah	P	60	60
28.		Puja Theresia	P	100	80
29.		Rosalia N.	P	20	60
30.		Suci Rofiatul M.	P	100	60
31.		Suyono	L	60	100
32.		Veny Pratiwi W.	P	60	40
		TOTAL		2060	2060
		MEAN		$\bar{x}_1 = 64,375$	$\bar{x}_2 = 64,375$

From the result of the score on the tabel, the researcher concludes that the students' score of pretest of both of group are same. Nevertheles, the students' score of posttest of both of group are different. The experiment group is better than control group.

2. Analyzes of the significance difference between the result of pretest and posttest.

The tabel is used to look for the significant difference between the result of pretest and posttest, not only the experiment group but also the control group. Before the researcher knows the significant difference, the researcher should know the space of both of score (pretest and posttest). It is known as a sign "d" in the tabel, and "d²" is the square of the space both of score. After that, the researcher calculate it for looking for the significant diffrence through formula.

Tabel 4.3

**The Calculation Score To Analyze The Significant Difference Between
Pretest And Post Test Of Experimental Group**

No	No. Induct	Name	Gender	Pretest	Post Test	D	d ²
1.	6984	Ach. Yani	L	60	100	40	1600
2.	6985	Adhi Latiful Fatiq	L	60	80	20	400
3.	6986	Alfarizi Kurniawan L.	L	100	80	-20	400
4.	6987	Ananto Fahrizal	L	40	60	20	400
5.	6988	Andi Setiawan	L	40	100	60	3600
6.	6989	Anggi Prayoga	L	40	100	60	3600
7.	6990	Dimas Mahendra	L	40	80	40	1600
8.	6991	Dwi Puspita Arum	P	80	60	-20	400

9.	6992	Ega Edvanurusyifa H.	L	60	60	0	0
10.	6993	Egar Meifardha L. M	L	80	60	-20	400
11.	6994	Ely Yesica Asri P.	P	60	80	20	400
12.	6995	Faisyalsyah Alam	L	40	100	60	3600
13.	6996	Fitra Anggara	L	60	100	40	1600
14.	6997	Frety Eka Febriyanti	P	70	100	30	900
15.	6998	Gefinda Ramadhani	P	80	80	0	0
16.	6999	Kusnia Tri Varadita	P	80	80	0	0
17.	7000	Ludya Ayu Pratiwi	P	60	60	0	0
18.	7001	Masrurin Mardiana	P	40	80	40	1600
19.	7002	Muh. Rizki Pratama	L	60	100	40	1600
20.	7003	Muh. Supriyanto	L	60	100	40	1600
21.	7004	Oky Yayan Febrata	L	80	100	20	400
22.	7005	Olivia Dwi Rizka N. W	P	70	100	30	900
23.	7006	Prika Dyah Indriani	P	40	80	40	1600
24.	7007	Rafika Putri Azizah	P	80	100	20	400
25.	7008	Randi Sumagera	L	100	100	0	0
26.	7009	Ratna Sari Dwi P. A	P	80	100	20	400
27.	7010	Thuroihan Aminulloh	L	80	100	20	400
28.	7011	Vera Selvia	P	40	80	40	1600
29.	7012	Wahyu Bagus A.	L	80	100	20	400
30.	7013	Waris Yulianto	L	100	100	0	0
31.	7014	Winda Dwi Purwati	P	60	80	20	400
32.	7015	Yeni Kumala Sari	P	40	80	40	1600
		TOTAL		2060	2780	720	31800
		MEAN		$\bar{x}_1 =$ 64,375	$\bar{x}_2 =$ 86,875	22,5	993,75

$$Md = \frac{\Sigma}{n} = \frac{720}{32} = 22,5$$

$$\Sigma x^2 d = \Sigma d^2 - \frac{(\Sigma x)^2}{n}$$

$$= 31800 - \frac{720^2}{32}$$

$$= 31800 - 16200$$

$$= 15600$$

$$= 15600$$

$$= \frac{\Sigma x^2 d}{n(n-1)}$$

$$= \frac{22,5}{\frac{15600}{32 \cdot 31}}$$

$$= \frac{22,5}{\frac{15600}{992}}$$

$$= \frac{22,5}{\sqrt{15,725}}$$

$$= \frac{22,5}{3,965}$$

$$= 5,674$$

From the result, the researcher consults it with t tabel:

$$d.b = N - 1 = 32 - 1 = 31$$

$$t \text{ value} > t \text{ tabel} > = t \text{ value} > t_{0,05}$$

$$= 5,674 > 2,0395$$

The researcher concludes that the result between pretest and post test are significant

Tabel 4.4

**The Calculation Score To Analyze The Significant Difference Between
Pretest And Post Test Of Control Group**

No.		Name	Gender	Pretest	Post Test	D	d ²
1.		Agung Setiawan	L	80	80	0	0
2.		Ahmad Al Haris	L	60	40	-20	400
3.		Ahmad Faqih	L	40	80	40	1600
4.		Andre Halim P.	L	60	40	-20	400
5.		Anguildi A.M.S	L	80	80	0	0
6.		Bagus Eka F.	L	60	60	0	0
7.		Chelya Ayu A.	P	80	80	0	0
8.		Dewi Indah A.	P	80	60	-20	400
9.		Deasy Arisandi	P	80	60	-20	400
10.		Dina Havianti P.	P	20	40	20	400
11.		Dinar fitriani	P	100	60	-40	1600

12.		Dinda Tri R.	P	40	80	40	1600
13.		Havest Farhan E.	L	40	40	0	0
14.		Ian Gita R.	P	100	80	-20	400
15.		Imam Syafi'i	L	100	80	-20	400
16.		Indie Bayu P.	L	80	60	-20	400
17.		Khosi Ummatul K.	P	40	80	40	1600
18.		Kriswantoro	L	60	80	20	400
19.		Moh. Firman A.	L	80	80	0	0
20.		Moch. Firmansyah	L	40	40	0	0
21.		Moch. Ainur R.	L	80	60	-20	400
22.		M. Mikhalludin	L	40	40	0	0
23.		M. Zainul M.	L	60	80	20	400
24.		Nia Agus T.	P	80	60	-20	400
25.		Nur Lailatul M.	P	40	80	40	1600
26.		Nuril Trisniawati	P	40	80	40	1600
27.		Nurul Hidayah	P	60	60	0	0
28.		Puja Theresia	P	100	80	-20	400
29.		Rosalia N.	P	20	60	40	1600
30.		Suci Rofiatul M.	P	100	60	-40	1600
31.		Suyono	L	60	100	40	1600
32.		Veny Pratiwi W.	P	60	40	-20	400
		TOTAL		2060	2060	40	18400
		MEAN		$\bar{x}_1 =$ 64,375	$\bar{x}_2 =$ 64,375	1,25	575

$$Md = \frac{\sum}{n} = \frac{64375}{51200} = 1,25$$

$$\sum x^2 d = \sum d^2 - \frac{(\sum x)^2}{n}$$

$$= 18400 - \frac{1600}{32}$$

$$= 18400 - 50$$

$$= 18350$$

$$= 18350$$

$$= \frac{\sum x^2 d}{n}$$

$$= \frac{1,25}{\frac{18350}{32 \cdot 31}}$$

$$= \frac{1,25}{\frac{18350}{992}}$$

$$= \frac{1,25}{\sqrt{18,497}}$$

$$= \frac{1,25}{4,300}$$

$$= 0,2906$$

From the result, the researcher consults it with t tabel:

$$d.b = N - 1 = 32 - 1 = 31$$

$$t \text{ value} < t \text{ tabel} = t \text{ value} < t_{0,05}$$

$$= 0,2906 < 2,0395$$

The researcher can conclude that the result between pretest and post test are not significant.

3. The last analyzes of significant difference score both of group

$$t = \frac{\overline{\overline{\Sigma \Sigma}}}{\Sigma \Sigma} (- -)$$

$$= \frac{\overline{\overline{\Sigma \Sigma}}}{\Sigma \Sigma} (- -)$$

$$= \frac{\overline{\overline{\Sigma \Sigma}}}{\Sigma \Sigma}$$

$$= \frac{\overline{\overline{\Sigma \Sigma}}}{\Sigma \Sigma}$$

$$= \frac{\overline{\overline{\Sigma \Sigma}}}{\Sigma \Sigma}$$

$$= 3,663$$

$$d.b = (N_x + N_y - 2) = 32 + 32 - 2 = 62$$

The result of differential means is $t_0 = 3,633$ and $db = 62$

In t table (appendix tabel 1.6), it can be known $t_{0,05} = 1,9990$ and for $t_{0,01} = 2,6575$

$$1,9990 < 3,663 > 2,6575$$

The researcher concludes that the treatment done by the researcher has influenced for the treatment group.

B. Discussion

The researcher focused on the effect of KWL strategy to students' competence in reading comprehension at SMP Negeri Kemlagi, Mojokerto.

The researcher took 2 groups that was grade VIII in this research. The first group was VIII D. It was for experiment group. The second was VIII G for control group. Both of groups were consists of 32 students. The researcher took the sample with cluster (area) random sampling. The researcher gave the same material to both of groups that was descriptive text.

The first time, the researcher gave the students pretest. It was done for the experiment and control group. Both of them were given in the same text and question. Pretest was given for the groups to know students' ability. For the

experiment group, pretest is for measuring students ability before giving KWL strategy. After giving pretest to the groups, the researcher calculate it with statistical. From the result of test, the researcher got the mean score. The mean score of experimental group was 64,375. While the mean score of control group was 64,375. As the result, the researcher concludes that the mean score both of groups are the same.

The next was the researcher gave the material to the experiment and the control group. The experimental group was given by the researcher using KWL strategy, but the control group was konvensional that means the control group is given the material through non KWL strategy.

The treatment was given for 3 times. It was done on July 23, 2012 (treatment 1), July 24, 2012 (treatment 2), and on July 31, 2012 (treatment 3). For the first treatment, the researcher used descriptive text entitled “Elephant”. It was taken from <http://andreassusiloeko.blogspot.com/2011/07/task-descriptive-text.html>. The second was about “Singapore” taken from *contextual teaching and learning bahasa inggris sekolah menengah pertama*, pg. 65. Meanwhile, the third treatment was about “My favorite singer” taken from *challenging to learn english*, 8. The third treatment was also used by the researcher for post test. The treatments are done for 2x35 minutes by the researcher.

Meanwhile, the control group was also given the material three times. It was done on July 27, 2012, July 31, 2012 and on August 3, 2012. The material

and topic were the same with the treatment group. The text and question were also same. In addition, time was needed about 2x35 minutes.

After the data collected, the researcher analyzes the data with t test. it is used to know the significant difference between experiment and control group. The experiment group is about t value $> t_{0,05}$ ($5,674 > 2,0395$). It can be known that the result of pretest and post test are significant. While for the control group, it is about t value $< t_{0,05}$ ($0,2906 < 2,0395$). It means that the result of pretest and posttest are not significant. As the result, the researcher concludes that KWL strategy is significant for the students.

The significant of pretest and post test have been known. Then, the researcher wants to know the influenced of the KWL strategy for SMP Negeri 1 Kemlagi, Mojokerto. The researcher calculates the data with t test. The result of differential means is 3,663. While t tabel for $t_{0,05}$ (1,9990) and $t_{0,01}$ (2,6575). It means that the result is $1,9990 < 3,663 > 2, 6575$. It means that KWL strategy has influenced for students at SMP Negeri 1 Kemlagi, Mojokerto.

From the result above, it conform to Ogle, Cantrell, and huffman as quoted by Volkan Akyuz, they said that KWL strategy gives positive impact of using KWL strategy. They claim that it can develop students' reading skill, remember information that in text and improve understanding information that

students received.¹ Meanwhile W. Dorsey Hammond said that KWL can help teacher to guide students to understand text.² One of them is increasing students' confidence to class assignment, because they have understood the text. In addition, it can make the result of their assignment better. In this research, the score of experiment group is better than control group. in addition, KWL strategy gives positive effect for students, not only for their active but also for their assignment.

¹Volkan Akyuz: *"The Effect of Textbook Style and Reading Strategy on Students' Achievement and Attitudes Towards Heat and Temperature"* (Secondary Science and Mathematics Education, 2004), 54. Taken from: <http://www.etb.ilb.metu.edu.tr/upload/3/12605079/index.pdf> ,accessed August 29, 2012

² W. Dorsey Hammond, "Use These Strategies to Develop Your Students' Thinking and Increase Their Learning In All Subject Areas" (<http://www.sagepub.com/books/Book229222>, accessed on August 29,2012

