THE INFLUENCE OF GENDER ON READING COMPREHENSION

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Abstract :

This study deals with the effect of gender differences on reading comprehension. The purpose is to answer the question: Does female students perform more significantly on reading comprehension of neutral text than do male students? The study that was conducted in the academic year 2019/2020, is pre-experimental in nature intact group design, and involved 60 grade students purposely selected based on their gender as the sample. They are then assigned into two treatment groups. The data are collected using an objective type test in multiple-choice format, and are analyzed statistically using t-test for independent sample. Result of the analysis showed that at p .05 and df 58, the t-observed is larger than t-table $[3.333 \ge 2.000)$. This indicates that female students outperformed their male counterparts in reading comprehension. In other words, it can be stated that gender differences affect reading comprehension.

Keywords: Reading Comprehension, Gender, English Learning

INTRODUCTION

It has been widely admitted that reading is an important language skill that should be nurtured from the early life of a child. The earlier a child learns to read the better chance the child has of excelling in school. Besides, Wong, for example, that by reading we expose argues ourselves new things, improve to understanding, gain experience from other people, and boost our imagination and creativity. Davis (2016) believes that by reading we develop our mind, discover new things, and develop our imagination. Reading enables us to have effective study skills, knowledge of different information resources, and effective retention capacity. A person who knows how to read can educate himself in any area of life he/she is interested in. In English language learning context, if we read a lot we can develop our not only our knowledge of the language. Reading in English certainly plays an important role in vocabulary growth and his knowledge of grammar. Pietil and Merikivi (2014: 20) state, "Reading undoubtedly influences vocabulary knowledge and growth." By reading, one could pick up words and phrases and use them in listening, speaking or writing. Therefore, reading is an effective way to develop our communicative competence in English.

Reading comprehension is a complex process in which information from the text and the knowledge possessed by the reader acts together to construct meaning. Successful comprehension, therefore, depends on the dynamic interaction among: (1) the reader's background knowledge, and (2) the information in the text being read. That is why, it is said that the more linguistic and content schemata one has, the easier he/she understands and decodes what is being read (UK Essays, 2017). According to schema theory, a text does not carry meaning itself, but provides directions to readers about the retrieval of relevant information from prior knowledge (Carrell&Eisterhold, 1983). This means that successful comprehension depends

P.ISSN: 2548-7728 E.ISSN: 2599-0373

mainly on students' ability to activate his/her background knowledge and his/her language knowledge. That is why Stanovich (1980) considers reading as an interactive compensatory process. It is compensatory in that the reader relies on his/her background knowledge when he/she finds it is difficult to understand linguistic information. Conversely, he/she relies on the text when he/she finds it is difficult to activate related background knowledge.

Comprehension is also affected by, for gender. Saidi example, and Mahrooqi(2012) claims genders influence on education, especially language learning, cannot be denied. Doolittle and Welsch (1989) find out that females scored higher than males on humanities-oriented readings whereas males did better than females on passages with science-oriented topics. Shahmohammad (2011) finds that males will have greater comprehension achievement if they read the texts, which sound masculine, and females will have comprehension achievement provided that they read texts, which are about feminine topics. Lietz, Petra (2006) reveale girls' superiority over boys in reading achievement.

Lynn and Mikk (2009) examines gender differences in means and variances in the PISA (Program for International Student Assessment) and the PIRLS (Progress in International Reading Literacy Study) tests. One of the PISA's studies done in 40 countries was carried out in 2003 revealed that in all these countries females obtained a higher average score than males. The other PISA study was carried out in 2006, and again, in all countries females obtained higher average scores over males.

A world-wide measurement of reading ability was conducted, also by the PIRLS in 35 countries (Mullis, Martin, Gonzalez, & Kennedy, 2003). In that

study, the reading-test scores of the females in all the countries are significantly higher than the males.

Not all studies reveals that gender has significant effects on comprehension. Vlachos and Papadimitriou (2015), for example, finds that gender does not play an important role in reading performance. Lietz, Petra (2006) also reveal that there was little or no evidence of gender differences. As with Lietz, Salehi et al., (2014) find that gender does not have any significant effect on text comprehension. Similarly, Yazdanpanah (2007) shows that the overall performance of males and females on the reading test was not significantly different. Therefore, more studies are needed to verify the claim that superiority females' in comprehension over males (Lynn and Mikk, 2009) should be verified.

RESEARCH METHOD

The purpose of this study is to describe the effect of gender on students reading comprehension. In terms of purpose, this study is experimental in nature, in that, it aims at describing a cause-effect relationship between gender (male vs. female) and reading comprehension of neutral texts. The relationship can be displayed as this:

Independent Variables Dependent Variable Gender: Male

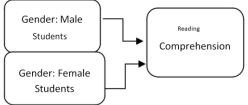


Figure 1. Relationship between Variables

Since it is difficult to form new groups randomly, the researchers decide to purposely choose two classes from the second grade, and then form two groups consisting of female and male students. The groups consist of 25 students each. The two groups will be given the same

texts to read and later on answer comprehension questions developed based on the selected texts. Since the students involved in this study will not be randomly selected, the design used will be intactgroup design. The design is displayed below.

Note:

X = experimental treatment O1/O2 =observation (or posttest).

FINDINGS AND DISCUSSION

The study is an experimental in nature using posttest-only control group design in which the two groups are exposed to 2 neutral texts and are tested using a 10 item multiple choice test afterward. Result of the testing is presented in Table 1.

Table 1. Posttest data of Male & Female Groups

No.	Female Group (X)	Male Group (Y)
1	8	7
2	7	6
3	6	6
4	9	8
5	7	6
6	7	7
7	7	5
8	8	7
9	8	6
10	6	8
11	7	7
12	6	5
13	7	7
14	8	6
15	7	7
16	7	9

JELLT (Journal of English Language and Literature Teachin Vol. 5, No. 2 November 2020

P.ISSN: 2548-7728 E.ISSN: 2599-0373

17	8	7
18	9	8
19	7	6
20	6	7
21	7	6
22	9	8
23	7	6
24	7	6
25	6	7
26	9	9
27	7	6
28	8	8
29	7	7
30	5	6

As pointed out before, the data already collected are statistically analyzed using ttest for independent sample. For this purpose, it is necessary to firstly find out the sums and sum squares of X and Y. Based on the calculation enclosed in Appendix 2, the followings are obtained.

Table 2. Sums and Sum squares of X and Y

X)	Male Group (Y)	
	$\sum Y = 210$	
	$\sum Y2 = 1512$	
	-	

Female Group (2 $\sum X = 230$ $\sum X2 = 1808$ $\overline{\mathbf{x}} = 8$

Based on the results of computation of mean, sums and sum squares of X and Y, statistical analysis using t-test for independent sample is manually carried out.

$$t_{\text{(observed)}} = \frac{8-7}{\sqrt{\left(1808 - \frac{52900}{30}\right) + \left(1512 - \frac{44100}{30}\right)}} \cdot \left[\frac{1+1}{30+30}\right]$$

$$= \frac{1}{\sqrt{\frac{(1808 - 1763) + (1512 - 1470)}{58}}} \cdot \frac{2}{30}$$

$$= \frac{1}{\sqrt{\frac{45 + 42}{58} \cdot \frac{2}{30}}}$$

$$= \frac{1}{\sqrt{\frac{87}{58} \cdot \frac{2}{30}}}$$

$$= \frac{1}{\sqrt{1.5 \cdot 0.06}}$$

CONCLUSION

Thus, t(observed) is 3.333, and at p (α) 0.05 and df 58, the t(table) is 2.000. Result of this statistical analysis is then compared or matched with the criteria for accepting or rejecting the null hypothesis displayed in Table 2.

Table 3. Criteria for Accepting/Rejecting Ho.

Criteria	P level	Meaning
$t_{(observed)} \leq t_{(table)}$	0,05	accept Ho
$t_{(observed)} \ge t_{(table)}$	0,05	Reject Ho

Based on the criteria just mention, it can be said that the null hypothesis was rejected. This in other words, means that female students significantly outperformed their male counterpart. The present study reveals that female students significantly outperformed their male counterpart in reading comprehension of neutral texts. This finding comes to support the previous research findings revealed by Oda and Abdul-Kadhim (2017), Anantasa (2016), Papadimitriou Vlachos and (2015),Keshavarz and Ashtarian (2008), Zhau (2008), and Wei (2009).

Oda and Abdul-Kadhim (2017), for example, finds that female students significantly outperformed their male counterparts in reading comprehension. Anantasa (2016) finds that girls perform better in reading comprehension than boys. Similarly, Vlachos and Papadimitriou' (2015) results show Gender is not found to play an important role in reading performance. Still in the same vein, Keshavarz and Ashtarian (2008) found that there is a difference between male and female **EFL** students in reading

comprehension ability with females being better in the comprehension of English passages. Wei (2009) and Zhau (2008) reveal that a strong relationship existed between gender differences and reading comprehension that could affect test outcomes.

Other studies reveal that gender differences do not affect comprehension. Salehi et al (2014), for example, showgender differences do not have any significant effect on text comprehension. Asgarabadi, et al., (2015) that there is no statistically significant difference between female students' male comprehension in these macro-genres. It is also shown that there is no significant difference observed between male and female learners in the overall use and employment of reading strategies in the descriptive and narrative macro-genres.

In contrast with the above-mentioned findings, Al-Shumaimeri (2005) reveals that males performed significantly better in multiple-choice tests compared to their female counterparts, but no significant interaction effect is found between content familiarity and gender. Tae-Ilpae (2004) classified finds that items mood/impression/tone tended to be easier for females, whereas items classified as Logical Inference are more likely to favor males regardless of item content. Similarly, Brantmeier's (2003) study leads her to conclude that her study shows that gender-oriented passage content readers' gender are key variables that significantly affect their performance on the recall comprehension task at the intermediate level.

In conclusion, although more studies reveal that gender differences affect comprehension, more studies focusing on neutral texts are needed to make sure whether gender-differences affect reading comprehension.

CONCLUSION

JELLT (Journal of English Language and Literature Teaching) Vol. 5, No. 2 November 2020

P.ISSN: 2548-7728 E.ISSN: 2599-0373

Data Analysis indicates that at p .05 and df 58, the t-observed is larger than ttable [3.333 \geq 2.000). This indicates that female students outperformed their male counterparts in reading comprehension. In other words, it can be stated that gender differences affect reading comprehension. The finding comes to support what experts and researchers that females are better in language learning, particularly reading, reveal. This finding is important for English teachers and EFL textbook writers, especially in choosing reading texts for their students and for inclusion in their textbooks. This finding suggests that it is important for them not to select reading texts that favor only female or male students. It is important for both English teachers and textbook writers to select neutral texts. Some studies revealed that there is no significant effect of gender comprehension. Therefore, studies are needed to ensure the effect of differences gender on reading comprehension

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