

THE CORRELATION BETWEEN VOCABULARY MASTERY AND READING COMPREHENSION OF THE EIGHTH-GRADE STUDENTS OF SMPN 1 BLAHBATUH IN ACADEMIC YEAR 2021/2022

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ABSTRACT

The present study is an ex-post facto research with correlation design was intended to figure out the significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022. The samples of the research consisted of 60 students which were chosen by means of random sampling method with lottery system. The data were collected through administering the research instruments which were in the form of structured matching cloze procedure test and short answer test. The obtained data were statistically analyzed by using Pearson product moment correlation and t-test. The results of the data analysis clearly revealed the alternative hypothesis was accepted. In other words, the research findings confirmed that there is significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022.

Keywords: correlation, vocabulary mastery, and reading comprehension.

ABSTRAK

Penelitian ini merupakan penelitian ex-post facto dengan desain korelasi yang dimaksudkan untuk mengetahui hubungan yang signifikan antara penguasaan kosakata dengan pemahaman bacaan siswa kelas VIII SMPN 1 Blahbatuh tahun ajaran 2021/2022. Sampel penelitian berjumlah 60 siswa yang dipilih dengan metode random sampling dengan sistem undian. Pengumpulan data dilakukan melalui pemberian instrumen penelitian berupa tes terstruktur cloze procedure dan tes jawaban singkat. Data yang diperoleh dianalisis secara statistik dengan menggunakan korelasi product moment Pearson dan uji-t. Hasil analisis data secara jelas mengungkapkan hipotesis alternatif diterima. Dengan kata lain, temuan penelitian menegaskan bahwa ada hubungan yang signifikan antara penguasaan kosakata dan pemahaman bacaan siswa kelas delapan SMPN 1 Blahbatuh tahun ajaran 2021/2022.

Kata kunci: korelasi, penguasaan kosakata, dan pemahaman bacaan.

INTRODUCTION

One of the four skills that must be mastered in learning English is reading, students can increase their knowledge of their English vocabulary, gain a lot of knowledge, and learn many things while they read. Reading skill allows students to access ideas that are communicated by people in the form of written or printed material from different countries, so it will give them the opportunity to broaden their

horizon and increase their knowledge. While reading, students construct various representations of the text that are important for understanding. Reading is a basic component of students being able to have an understanding or something more knowledge, because with reading, one will become richer in knowledge. Reading is an activity carried out by students to obtain information or previous knowledge known to the students.

According to Teixeira (2012:1), reading is a key language skill that has a significant place in teaching and learning foreign languages. In addition to this statement, by reading the students can learn so many things. Reading skill allows students to access ideas that are communicated by people in the form of written or printed material from different countries, so it will give them the opportunity to broaden their horizon and increase their knowledge. Furthermore, there are so many benefits that the students get from reading in learning a language.

In education, students are required to master reading to make it easier to get the information they need. Reading is an activity where the students understand the reading text and then relates it to the knowledge that the students have. Through reading, students can get much knowledge, ideas and students can get new vocabulary or they can practice to apply the vocabulary which they got. It means that vocabulary knowledge is a major component in the language learning. Reading is also something crucial and necessary for the students in learning English because the success of their study depends on their ability to read and find the information in their reading material. The students gain some information by reading, and the information may be affected by a fair reading performance. Through reading, the readers also begin to have a greater understanding of a particular topic. Since reading leads the readers to understand a reading passage, it can be said that reading is a receptive skill in language learning. According to Pollard (2008:45), reading involves students' interaction with visual

input of language they need to process and understand in language learning.

Vocabulary is an important element, especially in learning English. Students must be able to master vocabulary to have good English. Wainwright (2006:33) states that vocabulary is an important factor in reading. The more a person memorizes vocabulary, the better her/his language will be. Besides, vocabulary is the main aspect of reading. Without a well-developed vocabulary, understanding reading materials will be hampered. It will be increasingly difficult to understand the information that is stated in a reading text or written sources. From the explanations above, we know how important vocabulary in the reading activity. It shows that they have close relationships because to comprehend the text, the students need a lot of vocabulary. Besides, they must have good interaction with the text and need more attention from the readers to get the exact or close meaning.

In fact, there are some of students difficult to comprehend their reading. Some students do not understand what they read, it means that the students have difficulties in reading comprehension. It showed that students actually still have reading interest and reading comprehension problems. Some of them often failed in English comprehension or reading test in school because they read English content materials relatively little. And the level of pronunciation of students' vocabulary is very weak, therefore without a well-developed vocabulary, the level of students' understanding of the reading material will be hampered. It will make it more difficult

for students to understand the information stated in reading texts or written sources. Besides, according to Langan (2002:341), if students have a poor vocabulary, they will have a slow reading speed and limit their comprehension. Furthermore, Cameron (2001:72) states that improving a useful vocabulary is a basic point to learning a foreign language at an early level. Learning vocabulary is important as it enriches the knowledge of words. Thus, the researcher would like to figure out the correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022.

RESEARCH METHODS

This study used *ex post facto* research with correlational research design. The researchers used a random sampling technique with a lottery system to find the samples in the present study. The researchers decided to choose 60 students from the 509 population as the samples of the present correlational research. There were two kinds of instruments used in this study: matching cloze procedure test to test vocabulary mastery by identifying parts of speech (nouns, verbs, adjectives, and adverbs) and short answer task to test reading comprehension by identifying four aspects of reading: general information, specific information, textual reference, and textual meaning.

After the test has administered, the researchers scored the answer from the students. The researchers scored it using the rubric adapted from Brown (2004). Therefore, the present research data were considered the raw scores that indicated the

achievement of the samples' reading comprehension and vocabulary mastery.

To gain a conclusion, data analysis is a process where certain information is transformed. The present research data were in the form of the scores that were resulted from the matching cloze procedure test showed the students' vocabulary mastery, and short answer tasks showed their reading comprehension. To sum up, the required data analysis can be explained by some tests in pre-requisite analysis that the researchers did before testing the hypothesis. The statistical analysis were pre-requisite and hypothesis testing.

The first analysis that should be done is pre-requisite analysis. The pre-requisite analysis is a basic analysis requirement before doing hypothesis testing. There are two tests that would be conducted by the researchers. Those two tests are: normality test and homogeneity test.

A normality test is used to know the normality of the data that would be analyzed whether both groups have normal distribution or not. The researchers applied SPSS 25 program using Kolmogorov-Smirnov test because this test is more appropriate for big sample size (>50 samples), that is way the researchers used Kolmogorov-Smirnov test because the sample of this research is 60 (>50 samples). The hypothesis for the testing normality is as follows (Pallant, 2007:62):

- a. If Sig.> 0.05, it means the data distribution is normal;
- b. If Sig.<0.05, it means the data distribution is not normal.

Homogeneity test means the same in structure or composition. To calculate the

homogeneity test, the researchers applied SPSS 25 version for windows using Levene's test with a significance level (5%). If the significant value that is statistically analyzed is lower than 0.05, it indicates that the data distribution differs significantly from homogeneous data. In other words, the data can be categorized as homogeneous if the significant value is higher than 0.05.

Hypothesis testing is an act in statistics where the researchers tests population parameter assumptions. It is possible whether the assumption is acceptable or not within this assumption. The researchers assumed that there is a correlation between vocabulary mastery and reading comprehension of SMPN 1 Blahbatuh in academic year 2021/2022. In this study, the hypothesis testing is divided into two, namely, Pearson Product-Moment Correlation and T-test.

Pearson product-moment correlation that the researchers was used SPSS 25 version for windows. Pearson product-moment correlation coefficient or Pearson's r is used to measure the linear correlation between two variables, and it can have a value between -1 and +1. In other words, using Pearson's r is a simple way to assess the correlation between two variables.

According to Marczyk et al. (2005:220), the t-test is a test of statistically significant differences between two groups. The T-test was performed after the data are normally and homogeneously distributed. There are three kinds of t-test: independent-samples, paired-samples, and one-samples. In this research, the researchers used the paired-samples t-test to test the alternative

hypothesis. The results of the paired-sample T-test are determined by the significance value. This value then determines the decisions taken in the study. If the significant value less than 0.05, it means the data can be categorized as significant correlated. Meanwhile, if significant value more than 0.05, it means the data can be categorized as not significantly correlated.

FINDINGS AND DISCUSSION

In these findings, the researchers would like to explain the requirement for the data used so that the statistical analysis can be further continued to the next analysis. Two requirements that must be fulfilled in Pre-requisite analysis is normal and homogeneous analysis. Therefore, before the data further tested into a hypothesis testing, the data should pass the normality and homogeneity test. Thus, the result of normality and homogeneity test is explained as follow:

The result from the test of normality, namely Kolmogorov-Smirnov test. Kolmogorov-Smirnov test is more appropriate for big sample sizes (>50 samples); that was why the researchers used Kolmogorov-Smirnov test because the sample of this research was 60 (>50 samples). According to Pallant (2007:62), if Sig. > 0.05, it means the data distribution was normal and if Sig. < 0.05, it means the data was not normal. SPSS 25 output table above showed that the significance value (Sig.) of 0.200 on vocabulary mastery was greater than 0.05, it means normal. Besides, reading comprehension can be noted on the Significance value of 0.200 which was greater than 0.05, it means that the data

distribution of the present research was normal.

Furthermore, the homogeneity test was a test that assessed whether there were differences in variance between the two groups or more. The homogeneity test was only used in parametric tests, which test differences between two or several groups with different subjects or data sources. Therefore, a homogeneity test was needed to assume the independent T-test and ANOVA test. In the present study, to calculate homogeneity testing, the researchers used SPSS 25 program using Levene's test with level significance to find out the homogeneity between vocabulary mastery and reading comprehension. The following was the results of the homogeneity test from the present research data:

The significance value of the homogeneity test was a figure of 0.841. This means the significance value of the research variables was higher than 0.05. According to Pallant (2007:246), if $\text{Sig.} > 0.05$, the data variance is homogeneous on the other hand if $\text{Sig.} < 0.05$, the variance of the data is not homogeneous. Based on the results above it was found that the significance value of $0.841 > 0.05$. It can be concluded that the data of vocabulary mastery and reading comprehension had already had a degree of homogeneity.

After conducting a normality and a homogeneity test, the researchers proceed the data of the research to the hypothesis testing. Hypothesis testing was a test that tests the research hypothesis studied. Within this hypothesis, there is a possibility of whether it is accepted or not. In this study, the researchers constructed a

directional hypothesis that clearly stated a significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022. After calculating the pre-requisite analysis of the normal distribution of variance in which the data were normally distributed, the researchers then did the hypothesis testing. There are the tests that would be used in this hypothesis testing, namely the Pearson product-moment correlation test and T-test.

Based on the statistical computation assisted by SPSS 25 using a test of Pearson product-moment correlation. From the 60 samples, the obtained r of correlation was 0.435. The researcher can conclude the correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022 was high correlation because the value is 0.435. Furthermore, the next hypothesis testing can be continued by using T-test

According to Marczyk et al. (2005:220), the T-test was a test of a statistically significant difference between two groups. There are three kinds of t-tests: one-sample t-test, paired-sample t-test, and independent-sample t-test. In this study, the researchers used the paired sample t-test to determine whether there was probably a significant correlation between the two variables. The paired-sample t-test result that was formulated and determined by the significance value.

Based on the results, it can be found that the level significance of all groups of data which were analyzed by paired samples t-test showed that the significance

value was accepted because sig. 0.000 less than 0.05. In addition, based on the table, the result of the t-test counted was 4.523, and the result of degree of freedom was 59. It can be concluded that the t-test counted > t-table, it was $4.523 > 1.671$ there was a significant correlation. It meant a significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022. The next session after the findings is continued in discussion.

In this section, the researchers presented the research findings that had been carefully collected, and the data were intended to figure out the significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022.

To answer the research problem of the present study, the researchers conducted the research on 28th October 2021. The population was the eighth-grade students of SMPN 1 Blahbatuh which consisted of eleven classes and there were 509 students altogether. There were 60 students who were chosen as the samples in the present research. They were chosen by applying random sampling technique with lottery system. The researchers also used a directional hypothesis that stated that there is a significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022. Later, this alternative hypothesis would be used as a reference to whether there is a significant correlation between the two variables.

The purpose of data analysis in this study was to measure the correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022. Based on the correlation above about the normality test and hypothesis test of the present study. The researchers had conducted the data. The data was collected by using two instruments. The first instrument was the matching cloze procedure test used to know the student's vocabulary mastery by identifying parts of speech (nouns, verbs, adjectives, and adverbs). The second instrument was a short answer task used to know their reading comprehension by identifying four aspects of reading: general information, specific information, textual reference, and textual meaning.

The findings have already proven that the students' vocabulary mastery significantly correlated with their reading comprehension. Based on the findings and analysis above, it has been revealed that there is a significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students. In addition, the t-test results showed the hypothesis was accepted because the significance value was lower than 0.05. After finding out the calculation and the t-test result, it could be considered that knowing a lot of vocabulary makes the students easily catch the meaning of the text to improve their reading comprehension. In other words, the present research finally confirmed the directional hypothesis that has been previously stated; there was a significant correlation between vocabulary mastery and reading comprehension of the

eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022.

CONCLUSION

The present study used an ex-post facto research design focused on the correlational design. The researchers could only report the study results without giving treatment to the present study samples. The purpose of the study was to figure out whether there was a significant correlation between vocabulary mastery and reading comprehension. Based on the findings, it can be concluded that there was a significant correlation between vocabulary mastery and reading comprehension of the eighth-grade students of SMPN 1 Blahbatuh in academic year 2021/2022. The results of the present study should be carefully generalized.

REFERENCES

- Blachowicz, C., and Ogle, D (2008) *Reading Comprehension Strategies for Independent Learners*, Second Edition. New York: The Guilford Press.
- Boardman, A. (2007). *Teaching Reading Comprehension to Students with Learning Difficulties*. New York: The Guilford Press.
- Brown, H. D. (2004). *Language Assessment: Principles and Classroom Practices*. New York: Pearson Education.
- Harmer, J. (2007). *How to Teach English*. China: Pearson Education Limited.
- Pallant, J. (2007) *SPSS Survival Manual: A Step-by-Step Guide to Data Analysis Using SPSS for Windows*. 3rd Edition, McGraw Hill: Open University Press.
- Pang, E. S., Muaka, A., Bernhard, E. B., and Kamil, M. C. (2003). *Teaching Reading*. Perth: International Academy Education.
- Teixeira, J. V. (2012). *Developing Different Skills Using Different Texts*. New York: New I University.