

**THE CORRELATION BETWEEN ENGLISH MASTERY AND  
MATHEMATICS ACHIEVEMENT OF THE ELEVENTH GRADE  
STUDENTS OF SMA MUHAMMADIYAH 2 PALEMBANG**

**THESIS**

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***UNIVERSITAS MUHAMMADIYAH PALEMBANG*  
FACULTY OF TEACHER TRAINING AND EDUCATION  
ENGLISH EDUCATION STUDY PROGRAM  
AUGUST 2020**

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**THESIS**

**Presented to  
*Universitas Muhammadiyah Palembang*  
In Partial Fulfillment of the Requirements  
For the Degree of Sarjana in English Language Education**

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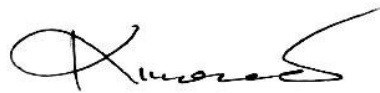
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Palembang, 25 Agustus 2020  
Yang menerangkan  
Mahasiswa yang bersangkutan



Hani Nurbaiti

## **MOTTO AND DEDICATION**

### **MOTTO**

- ♥ **Do the best in your life. Don't be afraid to try, keep trying and pray to your God.**

### **DEDICATION**

**This thesis dedicated to:**

- ♥ **My beloved parents, Hantoro (my father) and Makniah (my mother) thanks for everything that you did to me, especially for my mother has always support me when I got stuck on my thesis. It is the first I give to you mom and dad, your daughter's graduation and I have achieved it. Thank you a lot for prayer, motivation and attention, I finished my study and I will do the best just for make all of you to be happy and make you proud with me.**
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## ABSTRACT

Nurbaiti, Hani. 2020. *The Correlation between English Mastery and Mathematics Achievement of the Eleventh Grade Students of SMA Muhammadiyah 2 Palembang*. This thesis by English Education Study Program, Sarjana Degree (S1), Faculty of Teacher Training and Education of Universitas Muhammadiyah Palembang. Advisor: (I) Prof. Dr. Indawan Syahri, M.Pd, (II) Indah Windra Dwie Agustiani, S.Pd.,M.Pd.

***Keywords: Correlation, English Mastery, Mathematics Achievement.***

The objective of writing this thesis was to find out whether or not there was any significant correlation between English Mastery and Mathematics Achievement. The population of this investigation was eleventh grade students of *SMA Muhammadiyah 2 Palembang* with total number were 140 students. The sample was two classes, the total of the sample 60 students taken by using purposive sampling method. The data was collected through students' report. The data was analyzed by using Pearson Product Moment correlation coefficient. Based on the data analysis, the value of correlation between English mastery and Mathematics achievement ( $r$ -obtained= 0.605) was higher than  $r$ -table (0.211) which were significant at 0.005 level (2-tailed). It means that there was positive correlation between English mastery and Mathematics achievement. Since the value of  $r$ -obtained was higher than  $r$ -table, the alternative hypotheses ( $H_a$ ) was accepted and null hypotheses ( $H_o$ ) was rejected. It could be concluded that there was significant correlation between English mastery and Mathematics achievement of the Eleventh Grade Students of *SMA Muhammadiyah 2 Palembang*.



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The researcher realizes that the thesis is still far from being perfect. Therefore, any critics, comments and suggestions are welcomed for this thesis. In the future, the

researcher hopes that this thesis will be useful for the people and another researcher who read it.

Palembang, 25 August 2020

The Researcher

HN

## CONTENTS

	Pages
<b>TITLE .....</b>	<b>ii</b>
<b>AGREEMENT .....</b>	<b>iii</b>
<b>APPROVAL PAGE .....</b>	<b>iv</b>
<b>SURAT PERNYATAAN PLAGIAT .....</b>	<b>v</b>
<b>MOTTO AND DEDICATION .....</b>	<b>vi</b>
<b>ABSTRACT .....</b>	<b>viii</b>
<b>AKNOWLEDGMENTS .....</b>	<b>ix</b>
<b>CONTENTS .....</b>	<b>xi</b>
<b>LIST OF TABLES .....</b>	<b>xiii</b>
<b>LIST OF APPENDICES.....</b>	<b>xiv</b>
 <b>CHAPTER II NTRODUCTION .....</b>	 <b>1</b>
1.1 Background of the Study .....	1
1.2 Problem of the Study .....	5
1.3 Limitation of the Problem .....	5
1.4 Formulation of the Problem .....	5
1.5 Objective of the Study .....	5
1.6 Significance of the Study .....	5
1.7 Hypotheses of the Study .....	6
 <b>CHAPTER II LITERATURE REVIEW .....</b>	 <b>8</b>
2.1 Language .....	8
2.2 Context for English Learning .....	9
2.3 English .....	10
2.3.1The Role and Importance of English .....	10
2.4 Mathematics Subject.....	12
2.5 Academic Achievement .....	13
2.5.1 Mathematics Achievement.....	14
2.6 Correlation between English and Mathematics.....	14
2.7 Previous Related Studies.....	15
 <b>CHAPTER III RESEARCH METHODOLOGY .....</b>	 <b>17</b>

3.1 Method of the Research .....	17
3.2 Operational Definitions.....	18
3.3 Research Variables .....	19
3.4 Population of the Study.....	19
3.5 Sample of the Study.....	20
3.6 Technique for Collecting the Data .....	22
3.6.1 Documentation .....	22
3.7 Technique for Analyzing the Data .....	22
3.7.1 Statistical Analysis.....	23
<b>CHAPTER IV FINDING AND INTERPRETATION .....</b>	<b>25</b>
4.1 Findings.....	25
4.1.1 Students' English Mastery .....	25
4.1.2 Students' Mathematics Achievement .....	27
4.2 The Correlation between English Mastery and Mathematics Achievement .....	29
4.3 Interpretation .....	32
<b>CHAPTER V CONCLUSION AND SUGGESTION .....</b>	<b>34</b>
5.1 Conclusion .....	34
5.2 Suggestion.....	35
5.2.1 For the Students.....	35
5.2.2 For the Teachers of English and Mathematics .....	35
5.2.3 For the Other Researchers .....	36
<b>REFERENCES .....</b>	<b>37</b>
<b>APPENDICES.....</b>	<b>40</b>

## LIST OF TABLES

Table	Pages
1. Population of the study .....	20
2. Sample of the study .....	21
3. Table of r Value Interpretation .....	24
4. Students' English Scores in English Mastery .....	26
5. Result of Students English Score in English Mastery .....	27
6. Students' Mathematics Score .....	28
7. Result of Students' Mathematics Score .....	29
8. Correlation between English Mastery and Mathematics Achievement .....	30
9. Level of Correlation Coefficient .....	31
10. Result of Homogeneity .....	32

## LIST OF APPENDICES

<b>Appendices</b>	<b>Pages</b>
1. Daftar Kumpulan Nilai SMA Muhammadiyah 2 Palembang 2019/2020 .....	41
2. Surat Permohonan Riset dari Fakultas.....	54
3. Surat Keterangan Penelitian dari Sekolah .....	55
4. Kartu Bimbingan Proposal Skripsi .....	56
5. Kartu Bimbingan Skripsi .....	57
6. Surat Tugas .....	60
7. Surat Keputusan (SK) Dosen Pembimbing.....	61
8. Surat Persetujuan Ujian Skripsi.....	62
9. Undangan Ujian Skripsi.....	63
10. Surat Keterangan Pertanggungjawaban Skripsi.....	66
11. Bukti Telah Memperbaiki Hasil Ujian Skripsi .....	67
12. Curriculum Vitae .....	68

# **CHAPTER I**

## **INTRODUCTION**

This chapter consists of (1) background of the study, (2) problem of the study, (3) limitation of the study, (4) formulation of the problem, (5) objective of the study, (6) significance of the study, and (7) hypotheses of the study.

### **1.1 Background of the Study**

Language is the way of communication for people who have a certain meaning and purpose. According to Castillo (2015), language is nothing but human subjects in as much as they speak, say and know. Language is something coming from the inside of the speaking subject manifest in the meaningful intentional purpose of the individual speaker (p. 31). It means that language is an activity to talk with other people and have a purpose that will be achieved. People use language to share information and also to get information about many things.

Crystal (2003), stated that English is the global language (p. 1). In this case, English is very important to be learnt for many people, particularly for students. Furthermore, Rohmah (2005) defines English as a world language that is not merely an International language. The notion of International language can be understood as a language that is used in any International communication which involves people from two or more countries (p. 107). In short, English can be used in the world to communicate well because that language is easier to comprehend. In Indonesia,

English as a foreign language can help people to develop their knowledge because English as an International language and there is much information using English. Furthermore, in academic particularly for students English is important to be understood because many things use English like a book. Students who read English books should understand and comprehend what they are reading. If they do not understand it, they will have difficulty in learning.

Nowadays, the English language can be influenced by a person to communicate with each other. English is really needed at this time because English has been recognized as the International language that is used both in the world of technology, education, political and other fields. Mastering English is not only affecting the world of work but in all aspects of life. In the technological aspect, the world of technology is increasing such as computers and smartphones using English in its use. English also has an important role in the academic aspect, for example at university level education in some subjects requires learning English. Not only in university but in senior high school there are also learn English. In this context, the mastery of English is very important because it is not just translating but also understanding.

Patel and Jain (2008) said that:

“The teaching of English should be made more practical and language-oriented. English is to be taught as a language of comprehension rather than as a literary language. The role of English within a nation’s daily life is influenced by geographical, cultural and political factors. The role of English at a gives point in time must affect both the way it is taught and the resultant impact on the daily life and growth of the individual (p. 2).”



In this case, learning English should be simple and clear in order to make students easier to understand. It can influence the result of students' daily life. In teaching-learning English as a foreign language, the students have to be able to understand the words. They should master the vocabulary to translate the text in English.

Siregar (2017) defines about English:

“The English language plays a significant role in Indonesian society. It is the only official language of communication and, to a large extent, the official medium of school instruction. Knowledge needed for the social, economic and technical advancement of the country is found in books written in English. All competitive examinations, whether for entry into educational institutions or occupation include tests in one's competence in the use of English. In effect, English is the language of education, administration, law, communication, and commerce. Consequently, it has a distinct role to play in the social life of the Indonesian (p. 2).”

Nevertheless, Guingab(2015) stated that important of English language to increase the educational attainment through improve communication ability can never be overemphasized (p. 89). It means that English is very important to use in various fields. No one has the reason for not speaking English well. If people can use English very well, they will speak with other people easier. Thus, in learning English cannot be forced because people using Indonesia language as a first language.

Therefore, English mastery is very important in education because many books, articles, journals and so on use English. The students should know and understand what is the meaning of the sentence using the English language from the book. There is not only English education that needs to master English but also other education such as Biology, History, Indonesian Language, Chemistry and so on. One

of them, Mathematics also needs to master the English language. Furthermore, Pramudita and Anugraheni (2017) define that Mathematics is the process of manipulating abstract symbols according to special rules. Furthermore, because Mathematics is a language, but it is different from languages the nature and application of human effort. Mathematics is an object of purpose. Some opinions say that this ability for mathematical reasons is a characteristic that will become the first language of communication between us and other living things when that communication takes place (p. 72).

Furthermore, according to Jaman et al., (2013) cited in Apriyanti (2017) students with low English proficiency will experience problems from lower to higher level, while students who are good in English learning may have a problem only in the discussion of mathematics in the classroom (p. 2). Thus, low English learning achievement of students in mathematics with any factor is difficult like student math anxiety and gender affect low math scores.

Based on the researchers' experience, when she did PLP at school, she found that if the students like one subject, they just focus to learn it. For example, students are smart in Mathematics subject, they did not like learning English subject because they are accustomed to the pattern of learning Math. Therefore, the researcher was interested in this title. The researcher conducted a study entitled **“The Correlation between English Mastery and Mathematics Achievement of The Eleventh Grade Students of SMA MUHAMMADIYAH 2 Palembang.”**

## **1.2 Problem of the Study**

The problems of this study are regarded on *“The Correlation between English Mastery and Mathematics Achievement of The Eleventh Grade Students of SMA Muhammadiyah 2 Palembang.”*

## **1.3 Limitation of the Problem**

In this study, the researcher was limited the problem into *“The Correlation between English Mastery and Mathematics Achievement of the Eleventh Grade Students of SMA Muhammadiyah 2 Palembang.”*

## **1.4 Formulation of the Problem**

The problem of the study was formulated as follows: *“Is there any correlation between English mastery and Mathematics achievement of the Eleventh Grade Students of SMA Muhammadiyah 2 Palembang?”*

## **1.5 Objective of the Study**

In keeping with the problem, the objective of the study is to find out *“The Correlation between English Mastery and Mathematics Achievement of The Eleventh Grade Students of SMA Muhammadiyah 2 Palembang.”*

## **1.6 Significance of the Study**

This study provides the information about the results of *The Correlation between English Mastery and Mathematics Achievement of The Eleventh Grade Students of SMA Muhammadiyah 2 Palembang*, the following parties as follows:

a. For the researcher herself

By doing this study, it will improve her knowledge more on English mastery and give her some experiences in doing significant educational research.

b. Students

To the students (in school and university); this study designed for enhancing the role of English mastery in science development and the contribution of English mastery and Mathematics achievement.

c. Teachers of English

The teacher provides the information to the students about the importance of mastering English to support academic achievement student.

d. Other researchers

Hopefully this study was design to for other researchers to do the research, especially a researcher who wants to do the same case of study related to this study.

## 1.7 Hypotheses of the Study

According to Arikunto (2013), the hypothesis is an important statement of its position in research. In addition, hypotheses are formulated to describe the relationship of two effect variables (p. 112). The hypotheses of this study are in the form of the alternative hypothesis ( $H_a$ ) and null hypothesis ( $H_o$ ) as follows:

( $H_a$ ): There is a correlation between English mastery and Mathematics achievement of the Eleventh Grade Students of SMA Muhammadiyah 2 Palembang.

$(H_o)$ : There is no correlation between English mastery and Mathematics achievement of the Eleventh Grade Students of SMA Muhammadiyah 2 Palembang.

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