

THE CORRELATION BETWEEN VOCABULARY MASTERY AND SPEAKING MASTERY AT GRADE VIII STUDENTS OF SMP N 5 PADANGSIDIMPUAN

A THESIS

Submitted to the State Institute for Islamic Studies (IAIN)
Padangsidimpuan as aPartial Fulfilment of the Requirement for the
Graduated Degree of Education (S. Pd.) in English

Written by:

ANRY ANI Reg. Number. 1620300008

ENGLISH EDUCATION DEPARTMENT

TARBIYAH AND TEACHER TRAINING FACULTY
STATE INSTITUTE FOR ISLAMIC STUDIES
PADANGSIDIMPUAN
2021



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2021

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Item: 7 (seven) examplars

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To: Dean

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Padangsidimpuan

Assalamu 'alaikum wr.wb.

After reading, studying and giving advice for necessary revision on the thesis belongs to Anry Ani entitled "The Correlation between Vocabulary Matery and Speaking Mastery at Grade VIII Students of SMP N 5 Padangsidimpuan". We assumed that the thesis has been acceptable to complete the assignments and fulfill the requirements for graduate degree of Education (S.Pd) in English Education Department, Tarbiyah and Teacher Training Faculty in IAIN Padangsidimpuan.

Therefore, we hope that the thesis will soon be examined by the Thesis examiner team of English Education Department of Tarbiyah and Teacher Training Faculty IAIN Padangsidimpuan. Thank you.

Wassalam 'alaikumwr.wb.

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Speaking Mastery at Grade VIII Students of SMP N

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Mastery at grade VIII Students of SMP N 5

Padangsidimpuan.

ABSTRACT

This research discussed about the correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan. The students problem in this research were: 1) Students consider that learning English is very difficult 2) Students are worried about making mistake 3) Students have less confidence4) Students are lack of English vocabulary. The purpose of this research are to know of how significant the correlation between vocabulary mastery and speaking mastery at grade VIII Students of SMP N 5 Padangsidimpuan.

The formulation of the problem in this research was, how is the students' vocabulary mastery at grade VIII students of SMP N 5 Padangsidimpuan, how is the students' speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan and is there a significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan. The purpose of this research was to describe the level of vocabulary mastery at grade VIII students of SMP N 5 Padangsidimpuan, to describe the speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan and to find out the correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.

The kinds of this research was quantitative research with correlational method. 22 students were gotten by Slovin formula and chosen randomly from 7 classes as the sample. 5 students were from VIII-1, 3 students were from VIII-2, 3 students were from VIII-3, 2 students were from VIII-4, 2 students were from VIII-5, 3 students were from VIII-6, 4 students were from VIII-7. In this research the researcher used the way to take sample is used by lottre.

To analyze the data, the researcher use Product Moment formula. After analyzing the data, the researcher found that mean score of variable X was 73,60 and mean score of variable Y was 69,77. Besides, the score of r_{xy} was more than r_{table} 0.737> 0,423. The result showed that there was any significant correlation between two variables. It means the hypothesis (H_a) was accepted and (H_o) was rejected. It was concluded that there was any significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan and the criteria score interpretation between Vocabulary Mastery and Speaking Mastery students of SMP N 5 Padangsidimpuan in high category.

Key words: Vocabulary Mastery, Speaking Mastery

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Judul Skripsi : Hubungan antara Penguasaan Kosakata dan Penguasaan

Berbicara pada kelas VIII siswadari SMP N 5

Padangsidimpuan

ABSTRAK

Penelitian ini membahas tentang hubungan antara penguasaan kosakata dan penguasaan berbicara pada siswa kelas VIII di SMP N 5 Padangsidimpuan. Masalah siswa dalam penelitian ini adalah: 1) Siswa menganggap bahwa belajar Bahasa inggris sangat sulit 2) Siswa takut salah 3) Siswa Kurang percaya diri 4) Siswa tidak memiliki kosakata Bahasa inggris. Tujuan dari penelitian ini adalah untuk mengetahui seberapa signifikan hubungan antara penguasaan kosakata dan penguasaan berbicara pada siswa kelas VIII di SMP N 5 Padangsidimpuan.

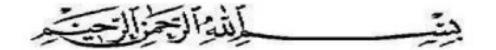
Formulasi masalah di dalam penelitian ini adalah, bagaimana penguasaan kosakata pada siswa kelas VIII di SMP N 5 Padangsidimpuan, bagaimana penguasaan berbicara pada siswa kelas VIII di SMP N 5 Padangsidimpuan dan apakah ada makna penting antara penguasaan kosakata dan penguasaan berbicara pada siswa kelas VIII di SMP N 5 Padangsidimpuan. Tujuan dari penelitian ini adalah untuk menggambarkan tingkat penguasaan kosakata padasi swakelas VIII di SMP N 5 Padangsidimpuan, untuk menggambarkan tingkat penguasaan berbicara pada siswa kelas VIII di SMP N 5 Padangsidimpuan dan untuk mencari tahu korelasi antara penguasaan kosakata dan penguasaan berbicara pada siswa kelas VIII di SMP N 5 Padangsidimpuan.

Jenis penelitian ini adalah penelitian kuantitatif dengan metode correlational. 22 siswa di ambil melalui rumus slovin dan di pilih secara acak dari 7 kelas sebagai sampel. 5 siswa dari kelasVIII-1, 3 siswa dari kelasVIII-2, 3 siswa dari kelas VIII-3, 2 siswa dari kelas VIII-4, 2 siswa dari kelas VIII-5, 3 siswa dari kelas VIII-6, 4 siswa dari kelas VIII-7. Untuk penelitian ini, peneliti mengambil sampel menggunakan cara lottre.

Untuk analisis data, peneliti menggunakan rumus Product Moment. Setelah menganalisis data, peneliti menemukannilai rata-rata darivariabel X adalah 73,60 and nilai rata-rata dari variabel Y adalah 69,77. Selain itu, nilai dari r_{xy} lebih dari r_{tabel}0.737> 0,423. Hasil nya menunjukkan bahwa adanya pengaruh yang signifikan antara kedua variabel. Artinya hipotesis (H_a) diterima dan (H_o) di tolak. Di simpulkan bahwa adanya hubungan yang signifikan antara kedua variable dan criteria skor hubungan penguasaan kosakata dan penguasaan berbicara siswa di SMP 5 Padangsidimpuan masuk ke dalam kategori yang tinggi.

Kata Kunci: Penguasaankosakata, Penguasaan berbicara

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Padangsidimpuan, 18 February 2021

Researcher

<u>AnryAni</u>

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CHAPTER I

INTRODUCTION

A. Background of the Problem

Speaking is one of the important skills in language learning. People should be able to communicate with the others to express their opinion or argument about something and to get or to share information. We speak with others to express our ideas, and to know others ideas as well. Speaking is one of the most important skills in language to communicate orally to express idea besides listening, reading and writing.

Then, speaking can be a powerful vehicle for conveying our feelings and motions for expressing our hopes, illusions, fears, and also speaking will be helpful to build up oral communication among the people from different area. It is absolutely true that to have good comunication, the students have to master the speaking.

Besides, all the efforts has done by the government to improve the quality of education such as increasing the quality of the curriculum development. School also makes an effort to raise the students ability, the school has prepared equipment to support the students' activities in study. The teacher has an important role in teaching-learning process, beginning from managing the classroom become comportable, so students can focus in learning English. Then, teacher give task individually or group, tellstories, and give the materials from textbook, until the headmaster provides various of media in

teaching English such as louspeaker and infocus. Thus, the learning is more interesting and fun in the class.

Based on information from the English teacher in SMP N 5
Padangsidimpuan, The condition of speaking mastery in SMP N 5
Padangsidimpuan especially to the VIII grade students still poor. Teacher saysmost of the students consider that the learning English is very difficult, they are worried about making mistake, students have less confidence and students are lack of English vocabulary. The researcher has seen the situation from the teacher statement, when the teacher are explaining the material, they often speak their bataknese language in the English Class.

There are many factors in speaking mastery. According to Maulaoeddin Afna in his journal, he says "Vocabulary is the important parts in acquiring fluency for speaking skill." Then, Zhiqin Wang says "There are some factors in speaking such as cognitive factors, linguistic factors and affective factors." In Hendriati's Journal there are some factors in speaking, they are listening ablility, topical knowledge, feedback during speaking activities and from perfomance conditions. As general truth, there are many factors in speaking but the researcher only focuses on vocabulary factor. Because

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¹Private Interview with mrs. E As English Teacher in SMP N 5 Padangsidimpuan" on Januari 16th 2020 at 11:00 A.m.

²Mauloeddin Afna, "The Correlation between Vocabulary and Speaking Skill," *Journal of Linguistics, Literature & Language Teaching* IV, no. 1 (2018): 43–71, http://sinta.ristek.go.id p.44.

³Zhiqin Wang, "Developing Accuracy and Fluency in Spoken English of Chinese EFL Learners," *English Language Teaching* 7, no. 2 (2014): 110–18, https://doi.org/10.5539/elt.v7n2 p.110.

⁴Hendriati Afebi, "Factors Affecting Students' Difficulties in Speaking Performance of the Tenth Grade Students of SMA Negeri 1 Tiworo Kepulauan," *Journal of English Education and Teaching* 3, no. 1 (2019): 95–105, http://ejournal.unib.ac.id p.97.

without vocabulary we can not express our idea and with a limited vocabulary anyone will also have limited understanding in terms of English such as speaking.

Vocabulary refers to the collection of word. Vocabulary is the total number of word. Vocabulary is one of the important aspect of the language, as we know vocabulary also is the basic element in language and it is one of the objective in teaching learning English. Through this element someone can communicate, learn and think.

Vocabulary plays important role in speaking. To master speaking, students have to know many vocabularies because vocabulary can help students for speaking with someone and vocabulary is the first step if students wants to be mastered speaking. Vocabulary also an essential element in a language, because no language exists without vocabulary.

Based on explanation stated above, the researcher was interested in conducting a research entitled "The Correlation Between Vocabulary Mastery and Speaking Mastery at Grade VIII Students of SMP N 5 Padangsidimpuan".

B. Identification of the Problem

Based on background of the problem above, speaking is the ability to report acts, or ability to express a sequence of ideas fluently. Speaking also the important ability that people must be have in learn English language. The function of speaking skill are to express an idea, someone feeling, and it spontaneously by orally.

The factors of speaking arecognitive factors include conceptualization, formulation and articulation, linguistic factors pronounciation, vocabulary grammar, affective factors anxiety, motivation self-restriction, listening ablility, topical knowledge, amount of support, feedback during speaking activities and from perfomance conditions.

C. Limitation of the Problem

Based on the identification above, there are many factors in speaking students they are vocabulary, pronounciation, grammar, anxiety, motivation, self-restriction, listening ablility, topical knowledge, amount of support, feedback during speaking activities and from perfomance conditions.

In this research, the researcher did not discuss all the factors. This research discussed one factor only, that is vocabulary.

The reason why the researcher chooses vocabulary factor because first step to master speaking is by learning vocabulary. By learning vocabularies, students will be able to communicate with the others and to get or to share the information.

D. Formulation of the Problem

Based on the background of the problem, researcher formulates the problem of the research as follows:

- How is the students' vocabulary mastery at grade VIII students of SMP N 5 Padangsidimpuan?
- 2. How is the students' speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan?

3. Is there a significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan?

E. Purpose of the Research

From formulation of problem, the purpose of this research were:

- To describe the level of vocabulary mastery at grade VIII students of SMP N 5 Padangsidimpuan.
- To describe the speaking mastery at grade VIII students of SMP N 5
 Padangsidimpuan.
- To find out the correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.

F. Significances of the Research

By conducting the research about the correlation between students of vocabulary mastery and their speaking mastery, I hope that the result of the research will be useful to give some contributions to English language and teaching learning:

- To Head master of the school, as an information to guide English teacher to teach English better.
- To the English teachers, as areferences to teach English clear and better.
- 3. To reader and another researchers, as an information to do related topic of the research and for further researchers who are intrested in correlational research, they can get basic information from this research. So, they can do their research better than this research.

G. Thesis Outline

The systematic of this research was divided into five chapters. Each chapter consisted of many sub chapters with detail as follow:

The first chapter consists of introduction; background of the problems, limitation of the problems, formulation of the problems, purposes of the research, significances of the research, and thesis outline. This research is expected to be useful at least three domains, they are for the head master and for the English teacher and for another researcher.

The second chapter consists of theoretical descriptions; review of related findings, framework of thinking, and hypothesis. In this research, researcher has hypotheses that the significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.

The third chapter consists of the research method; place and time of the research, research method, population and sample, definition of operational variables, instrument of research, validity and reliability of instrument, and techniques of analysis data.

The fourth chapter consists the result of research; the description data, hypotheses of testing, discussion of result, and limitation of research.

Finally, in the fifth chapter consists of conclusion and suggestion.

CHAPTER II

LITERATURE REVIEW

A. Theoretical Description

1. Vocabulary

a. Definition of Vocabulary

Vocabulary is an essential element of language in teaching English. It is a part of language that so important to all aspects in life. According to Hornby "Vocabulary is all the words that person know or use, the words that people use when they are telling about particular subject." Then, Jack C. Richard and Willy A Renandya said "Vocabulary is a core component of language proficiency and provides much of the basic for how well learners speak, read, listen and write. It means, words can be noun, verb, adverbs, adjectives, preposition and conjunction to use language." Then, language is some words or vocabulary for speak, listen, read and write.

According to Ur Penny "Vocabulary is the words we teach in foreign language. It means vocabulary is the list of words that work in language and it is taught by the teacher based on the students' level."

Then, according to Jackson, "Vocabulary is a representative collection

⁵A.S Hornby, Oxford Advanced Learners' Dictionary (New York: Oxford University Press, 1995),p. 1506.

⁶Jack C Richards & Willy A Renandya, Methodology in Language Teaching and Anthology of Current Practice (USA: Cambridge University Press, 2000),p. 255.

⁷Penny Ur, A course in Language Teaching (United kingdom: University Press, 2000),p. 60.

of the words that exist in the English language." According to Fitri Rayani's journal "Vocabulary is the total number of words that are needed in communicate ideas and express the speakers' meaning." Vocabulary is the words that are known and use by human. Vocabulary is so important for the students because it is the core part of the language and has the link to each skill in English.

Based on quotation above, it can be concluded that vocabulary is collection of words that are understood and used to communicate in a language.

b. Purpose of Vocabulary

Purpose of vocabulary is to increase learners' ability in language and to have knowladge about words and its element. Julie Meltzer and Edmund quote from Alen as follows:

According to Allen, purposeful vocabulary instruction to: 1) increase reading comprehension, 2) develope knowledge of new concepts, 3) improve range and specificity in writing, 4) help students communicate more effectively, and 5) develope deeper understanding of words and concepts with which students are only nominally familiar. 10

Meanwhile, the purpose of vocabulary in Junior high school institution (MTs/SMP) there are some purposes for vocabulary student:

- Students are able to memories vocabulary around 250 words.
- 2) Students are able to enrich vocabulary in daily activity

⁸Howard Jackson, Words, Meaning And Vocabulary (London: Casell, 2000),p. 118.

⁹Fitri Rayani Siregar, "Using the Word Card Technique in Teaching Vocabulary," English Education Journal 4 (2016): 1–13, http://schoolar.google.com p.3.

Julie Meltzer and Edmund T. Hamman, Meeting the Literacy Development Needs of Adolescent English language Learning Through content Area Learning (The Education Alliacient Brown university, 2005 p.5.

3) Students are able to know the meaning of words. 11

Based on the explanation above, there are some purposes of vocabulary. They are: students are able to memories vocabulary around 250 words, to enrich vocabulary in daily activity, to know the meaning of words. It can be concluded that teaching vocabulary can develops the students' understanding of words elements.

c. Kinds of Vocabulary

According to Thornbury in Harmer, there are two kinds of vocabulary, as follows: Receptive vocabulary or passive vocabulary and productive vocabulary or active vocabulary. The further explanation is:

- Receiptive Vocabulary or Passive vocabulary
 Receptive vocabulary can be understood only through listening and
 reading. Someone doesn't need to know much about the receptive
 vocabulary and it is impossible for someone to memorize all the
 vocabularies of a certain language but someone can understand the
 ideas of the utterance contextually not word by word.
- 2) Productive Vocabulary or Active Vocabulary Productive vocabulary involves of knowing how to pronounce the word how to write and spell it, how to use it in correct grammatical patterns along with the words that usually collocate with.¹²

According to Haycraft in Mofareh's journal there are two kinds of vocabulary, namely receptive vocabulary and productive vocabulary.

Receptive Vocabulary

Receptive vocabulary is words that learners recognize and understand when they are used in context, but which they cannot produce. It is vocabulary that learners recognize when they see or meet in reading text but do not use it in speaking and writing.

¹¹-, Syllabus of eight grade of junior high school in Curriculum K-13 2019/2020, access on 25th August 2020 at 11.00 am

¹²Jeremy Harmer, The Practical of English language Teaching (New york; Longman, 2000)p. 158.

2) Productive vocabulary

Productive vocabulary is the words that the learners understand and can pronounce correctly and use constructively in speaking and writing. It involves what is needed for receptive vocabulary plus the ability to speak or write at the appropriate time. Therefore, productive vocabulary can be addressed as an active process, because the learners can produce the words to express their thoughts to others. ¹³

Based on the quotation above, it can be concluded that receptive vocabulary or passive vocabulary will be easy understand by using listening and reading to remember words or vocabularies, while productive or active vocabulary will be easy to understand by using concentration patterns and grammatical word to get vocabulary. Then, receptive vocabulary refers to the words the students meet in reading text, while productive vocabulary refers to word that the learners understand and can pronounce correctly and use constructively in speaking and writing.

d. Principles for Teaching Vocabulary

Recognizing what students need in learning is necessery for a teacher. The process of transferring knowledge will not simply succeed if he can not see his students' learning absorbing capability toward the material taught and the teaching portion should be given.

According to Nunan, there are several principles for successful in teaching vocabulary as follow:

¹³Mofareh Alqahtani, "The Important of Vocabulary in Language Learning And How to Be Taught," *International Journal of Teaching and Education* III, no. 3 (2015): 21–34, https://doi.org/10.20472/TE.2015.3.3.002. p.26 access on 23th July 2020 at 20.00 pm

- 1) Focus on the useful vocabulary first.
- Focus on the vocabulary in the most appropriate word.
- Give attention to the high frequency words across the four strands of a course.
- Encourage learners to reflect on and take responsibility for learning.¹⁴

In addition, Michael in Rahmi's thesis says that there are the principles for teaching vocabulary, there are:

- Give most attention to word that are already partly known.
- Tell the learners if it is a high frequency word that they should remember.
- Keep teaching simple and clear. No complicated explanations.
- Relate the present teaching to past knowledge by showing pattern.¹⁵

Based on the quotationsabove, there are some principles for teaching vocabulary from many expert. They are: focus on the useful vocabulary first, focus on the vocabulary in the most appropriate word, give attention to the high frequency word across the four strands of a course, encourage learners to reflect on and take responsibility for learning, give most attention to word that are already partly known, tell the learners if it is a high frequency word that they should remember, keep teaching simple and clear, relate the present teaching to past knowledge by showing pattern. These principles can apply in a variation way and variation types of course. In other words, the variation principle in teaching about vocabulary is effective to help the students in learning vocabulary.

¹⁵Rahmi Pu'adi Siregar, "The Effect of Concept Circle Strategy on Students' Vocabulary Mastery at Grade VII MTs N 2 Padangsidimpuan" (Iain Padangsidimpuan, 2017) p. 18.

¹⁴David Nunan, Practical English Language Teaching (Singapore: Mc Graw Hill, 2003) p.135-140.

e. Choosing Vocabulary

Understanding the nature of vocabulary is important to the process of selecting appropriate instructional strategies that enable students to master the vocabulary they need to learn, to read and to read and learn. Vocabulary consists of function words and content words. The first step in planning for vocabulary instruction is to identify the words students will learn. According to Afaf Abdelrahim there are five suggestions to guide you in this decision-making process are enumerated below, They are:

- Select words that are common and generally useful for students to know.
- Avoid assigning words that students rarely encounter.
- Choose terms that are strategic to academic success and are not typically acquired independently.
- Identify words that are essential for understanding a reading selection
- Pick textbook vocabulary that addresses key concepts or idea. ¹⁶

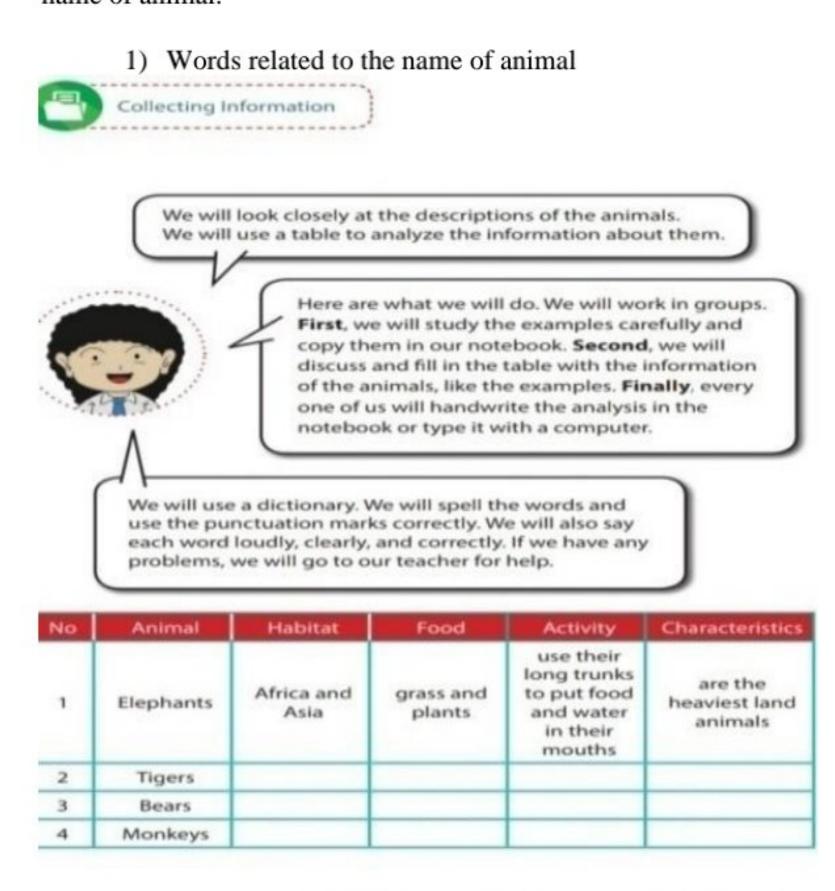
Based on quotations above, there are some suggestions that teacher should know to teach vocabulary for students. They are: select words that are common and generally for students, Avoid assigning words that students rarely, choose terms that are strategic, identify words that are essential for understanding and pick textbook vocabulary that addresses.

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¹⁶Afaf Abdelrahim and Jalal Eldin, "The Role of Vocabulary Learning Strategies in Enhancing EFL Learners' Writing Skills" 4, no. 8 (2017): 41–50, http://dx.doi.org/10.20431/p.42. access on 11th September 2020 at 10.00 am

f. Materials of Teaching Vocabulary

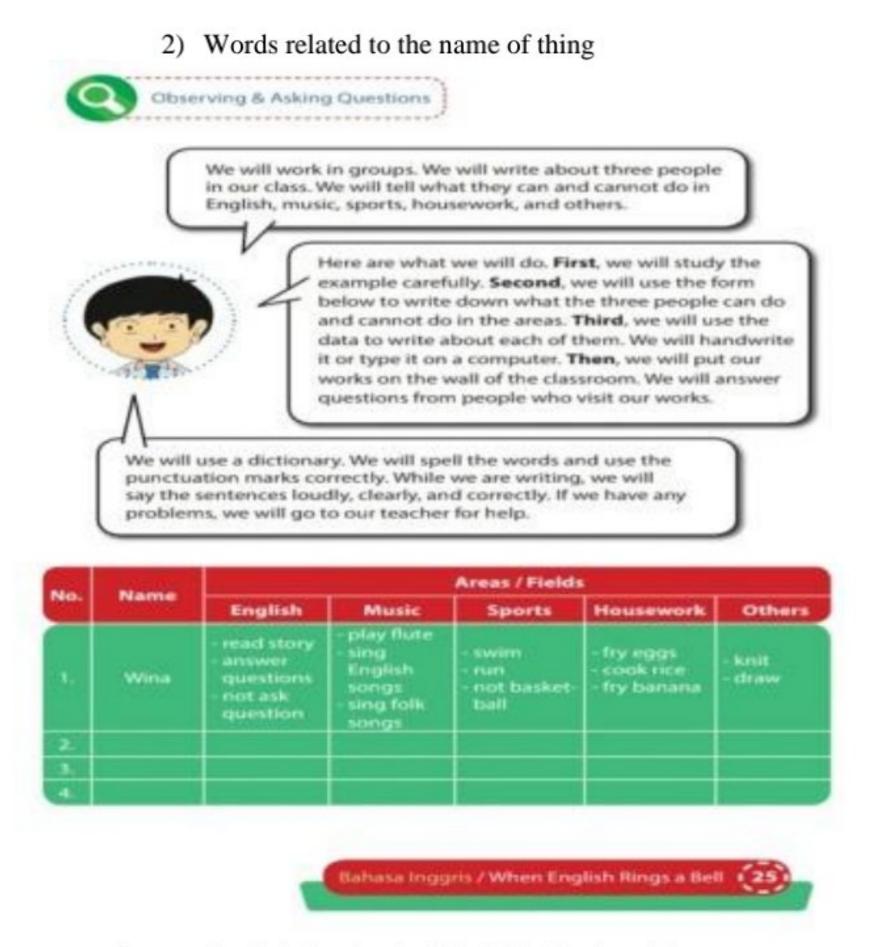
The material of teaching vocabulary is based on syllabus given by government who has the autority. The topic of the vocabularies does not mention explicitly in the material. The topic does not explain specifically, but the vocabularies include in writing, speaking and reading materials. Here, only discuss the vocabulary that related to the name of animal.



Bahasa Inggris / When English Rings a Bell (89)

Source: English Textbook of SMP N 5 Padangsidimpuan

Here are what they will do, students will work in groups and use a dictionary. First, they will study the examples carefully. Second, students will discuss and fill the table with the information of the animals, like the examples. Finally, every one will handwrite the analysis on the notebook.



Source: English Textbook of SMP N 5 Padangsidimpuan

2. Speaking

a. Definition of Speaking

Speaking is the process of building and sharing meaning through in verbal and symbol of variety in context. David Nunan states speaking is the productive aural/oral skill. It is consists of producing systematic verbal utterances to convey meaning. According to Kathleen "Speaking is an interactive process of constructing meaning that involves producing and receiving and processing information". It is often spontaneous, open-ended, and evolving, but it is not completly unpredictable. Then, According to Sri Rahmadani's journal "Speaking is a way of communication are used by speakers to express their ideas, opinions, and feelings to other by using verbal form." So, speaking is a process that producing and receiving meaning.

Based on Indonesia curriculum of Junior High school in Buku Guru Bahasa Inggris; "When English Rings a bell" by Siti Wachidah, speaking has a specifik definition. Speaking is one of the students learning activity to make students able communicate interpersonal, transactional, and functional about themselves, family, people, animals and objects concreate and imaginative, which are closest to the life and daily activites of students at home, school and society. Speaking makes students establish verbal communication.

Based on explanation above, it can be concluded defenition speaking in junior high school is students can express the meaning of short transactional, interpersonal conversation, and personal in order

¹⁷Nunan, Practical English Language Teaching p.48.

¹⁸Kathleen M.Bailey, Practical English Language Teaching 1st Edition (New York: The Mc. Graw-Hill Company, n.d.) p.52.

¹⁹Sri Rahmadhani Siregar, "Using Direct Method in Teaching Speaking," English Education Journal 4 (2016): 34–47, http://schoolar.google.com p.36.

²⁰Siti Wachidah et al., When English Rings a Bell (Jakarta Pusat Kurikulum dan Perbukuan, Balitbang, Kemendikbud, 2018).

to interact with the surrronding in oral which simple way that related to animals and daily life.

b. Purpose of Speaking

Purpose of speaking not only for communicate with other but also for producing and receiving meaning. Shaima state some purposes of speaking as follows:

- Personal means that someone want to speak or express personal feeling, opinions, beliefs and ideas.
- Descriptive is describing someone or something, real or imagined.
- Narative is when people creating and telling stories or chronological sequenced events.
- Instructive. Giving instruction or providing directions designed produce an outcome.
- Questioning. Asking questions to obtain information.
- Comparative. Comparing two or more objects, people, ideas, or opinions to make judgments about them.
- Imaginative. Expressing mental images of people, places or events and objects.
- Predictive. Predicting possible future events.
- Interpretative. Exploring meaning, creating hypotheritical deductions and considering influences.
- Persuative. Changing others' opinions, attitudes, point of view, or influencing the behavior of other in some way.
- Explanatory. Explaining, claritifing, and supporting ideas and opinions.
- 12) Informative. Sharing information with other.²¹

Based on curriculum (K13), there are some purposes of speaking in reviewed from kompetensi dasar in Junior High School, the purposes of speaking are divided into the following description:

 Speaking makes students know a variety different ways in interrupting a conversation for the purposes asking and personal,

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²¹Shiamaa Abd EL Fattah Torky, "The Effectiveness of a Task- Based Instruction Program in Developing the English Language Speaking Skills of Secondary Stage Students" (2006), https://www.awej.org.access on 09th August at 12.00 p.m

describe someone or something, question and confirming explanation, changing topic or conversation.

- Speaking makes students able to show attention in the form of appreciation and praise in conversation.
- Speaking makes students able to clarify and confirming to change the conversation topics throught listening and speaking.²²

Based on explanation above, there are some purposes of speaking. Purposes of speaking makes students know and understand how to interrupt conversation in order to ask for an explanation. Speaking also makes students know and understand how to change the topic of conversation listening and speaking activities. Speaking makes students can express the meaning of oral text function to make it simple. This helps to easy the transactional process of comunicating to be done by keeping good social relation with others. So, the purpose of speaking is to get information from the speaker. In other words, we can say that speakers do one thing by doing another.

c. Principles of Speaking

There are some principles in speaking that speaker must applied in teaching speaking. Nunan stated there are five principles that teacher aware in teaching speaking, they are :

- Be aware of the differences between second language and foreign language learning context.
- 2) Give students practices with both fluency and accurancy

²²-, Kurikulum 2013, 2013, http://abbah.yolasite.com p.68..access on 10th August 2020 at 15.00 pm

- Provide opportunities for students to talk by using group work and limiting teacher talk.
- 4) Plan speaking task that involve negotiation for meaning.
- Design classroom activities involve guidance and practice in both transactional and interactional speaking.²³

In addition, According to Brown's book there are seven principles of speaking, as follow:

- 1) Focus on both fluency and accuracy, depending on objective.
- Provide intrisically motivating techniques.
- 3) Encourage the use of authentic language in meaningful contexts.
- 4) Provide appropriate feedback and correction.
- Capitalize on the natural link between speaking and listening.
- 6) Give opportunities to initate oral comunication.
- Encourage the development of speaking strategies²⁴.

Based on quotations above, there are twelve principles for teaching speaking. They are: be aware of the differences between second language and foreign language learning context, give students practices with both fluency and accurancy, provide opportunities for students to talk by using group work and limiting teacher talk, plan speaking task, design classrom activities involve guidance and practice in both transactional interactional speaking, focus on both fluency, accuracy, provide instrically motivating, encourage the use of authentic language, provide feedback and correction, capitalize on the natural link, give opportunities to communicate, encourage the development os speaking. So, the teacher can follow the principles to make students more active in teaching learning process. Teacher also make teaching learning process more interest.

²³Nunan, Practical English Language Teaching.p.54-56

²⁴H Douglas Brown, Teaching by Principles an Interactive Approach to Language Pedagogy, 2007 p.331.

d. Kinds of Speaking

There are some kinds of speaking that we teach for communication with other. According to Doughlas Brown, there are types of spoken language:

- Imitative. A very limited portion of classroom speaking time may legitimately be spent generating "human tape recorder" speech, for example, learners practice an intonation contour or try to pinpoint a certain vowel sound. Imitation of this kind is carried out not for the purpose of meaningful interaction, but for focusing on some particular element of language from.
- 2) Intensive. Intensive speaking goes one step beyond imitative to include any speaking performance that is designed to practice some phonological or grammatical aspect of language. Intensive speaking can be self-initiated, or it can even form part of some pair work activity, where learners are "going over" certain forms of language.
- Responsive. A good deal of student speech in the classroom is responsive: short replies are usually sufficient and do not extend into dialogues. Such speech can be meaningful and authentic.
- 4) Transactional (dialogue). Transactional language, carried out for the purpose of conveying or exchanging specific information, is an extended form of responsive language. Conversation for example: may have more of a negotiation nature to them than does responsive speech.
- 5) Interpersonal (dialogue). Interpersonal dialogue carried out more the purpose of maintaining social relationship than for the transmission of facts and information. This conversation is little trickier for learners because they can involve some or all of the following factors: casual register, colloquial language, emotionally charged language, slang, ellipsis, sarcasm and a covert "agenda".
- 6) Extensive (monologue). Students at intermediate to advanced levels are called on to give extended monologues in the form of oral reports, summaries or perhaps short speeches. Here the register is more formal and deliberative. Then monologues can be planned or impromptu.²⁵

²⁵Brown p.327-330.

In addition, according to Browns' bookthere are two types of oral language, as follow:

1) Monologue

Brown states that "Monologue is when one speaker uses spoken language forany length of time, as in speeches, lectures, readings, news broadcast, and the like, the hearer must process long stretches of speech without interruption the stream of speech will go on whether or not the hearer comprehends what speaker means". 26

2) Dialogue

It is different with monologue."Dialogue is the speaking that involves two or more speakers. The interruption may happen in the speech when the interlocutor does not comprehend what the speaker say. The dialogue consist of two types, they are: social relationship (interpersonal), and factual information (transactional)". 27

Based on explanation about kinds of speaking above, both of expert's opinion are good. The most suitable that is based on Brown's opinion that are monologue and dialogue. Studying speaking students have effort to explain their idea even need long time or short time. Monologue process also can be as an alternative for students to mastery speaking by doing such as: retelling story, combine stories, telling opinion, presentation and speech. Where as studying dialogue, students communicate not only for one way but also there is a part to talk. For example: conversation and disscussion.

²⁶Brown p.303.

²⁷Brown p.303.

e. Elements of Speaking

According to Harris, there are some elementsof speaking. It is define into five: pronounciation, grammar, fluency, vocabulary, and comprehension. 28 The farther explanation is explained as follow:

1) Pronounciation

Pronounciation is refers to the way how we make the sound of words. According to Lynda Yates and Zielinski "Pronounciation is how we produce the sound that we use to make meaning when we speak." People pronunciation in influenced by some aspects as the place where we live, our mother language or education. So, pronounciation has a key rule in learning English.

2) Vocabulary

Vocabulary is the most important when we learn about foreign language specially in speaking. Nunan states "Vocabulary is more that a list of target language of words." a spoken word is a sound or sequence of sounds, which communicate those "ideas" precisely, a speaker should express them with precise words rather than general words. In addition, vocabulary refers to the students achievement to build up the words using some relate vocabularies.

²⁸David P Harris, Testing English as a Second Language (New york: Mc Graw Hill book company, 1996) p.81.

²⁹Lynda Yates and Beth Zielinski, Give It a Go: Teaching Pronunciation to Adults (Australia: AMEP Research Centre on behalf of the Department of Immigration and Citizenship Macquarie University Sydney, 2009) p.11.

³⁰Nunan, Practical English Language Teaching p.258.

3) Fluency

Fluency refers to how well a learner communicate meaning rather than how many mistakes that they make According to Richard "Fluency is the features which give speech the qualities of being natural and normal, including native-like use pausing, rhythm, intonation, stress, rate of speaking," So, fluency is the ability to speak a foreign laguage easily and accurately.

4) Grammar

Grammar has effect to students confidents in speaking. According to Jack C. Richard "Grammar is description of the sructure of language and the way in which linguistic units are combined to produce sentence in the language." Sometime students want to speak but afraid about their grammar will be wrong while speaking. So, they choose to still silent and safe their opinion because they lack in grammar.

Comprehension

Comprehension denotes the ability of understanding the speaker's intention and general meaning. Hormby states, "Comprehension is the mind's act and power of understanding." When there is communication between people and the listener can

³¹Jack Richards and Richard W Schmidt, Longman Dictionary of Language Teaching and Applied Longuistics, Fourth edi (UK: Person education, 2010) P.222.

³²Richards and Schmidt P.251.

³³A S Hormby, Oxford Learners' Pocket Dictionary, Fourth Edi (New york: Oxford University, 2008) p.86.

understand, answer or express well and correctly, it shows comprehend in their communication.

Based on English book "When English Rings A Bell" there are some elements of speaking in Junior high school at grade VIII and the assessment of speaking are divided into: Pengucapan (Pronounciation), Intonasi (Intonation), Kelancaran (Fluency) and Ketelitian (Accuracy).³⁴

From these explanation above, there are some components of speaking that must be paid attention by students if they want to speak well. They are accent, grammar, fluency, vocabulary and comprehension. The teacher can follow the elements to students speaking ability in the class.

f. Materials of Teaching Speaking

There are three ways of communication applied in implementation of 2013 curriculum, they are: student – teacher, teacher – student and student – student. Here, students should be able to observe, asking question, think out, experiment and communicateby doing discussion with their group. In this research, the material only focus on chapter with sub topic My Uncle is a Zookeper.

The example of speaking material about animals:

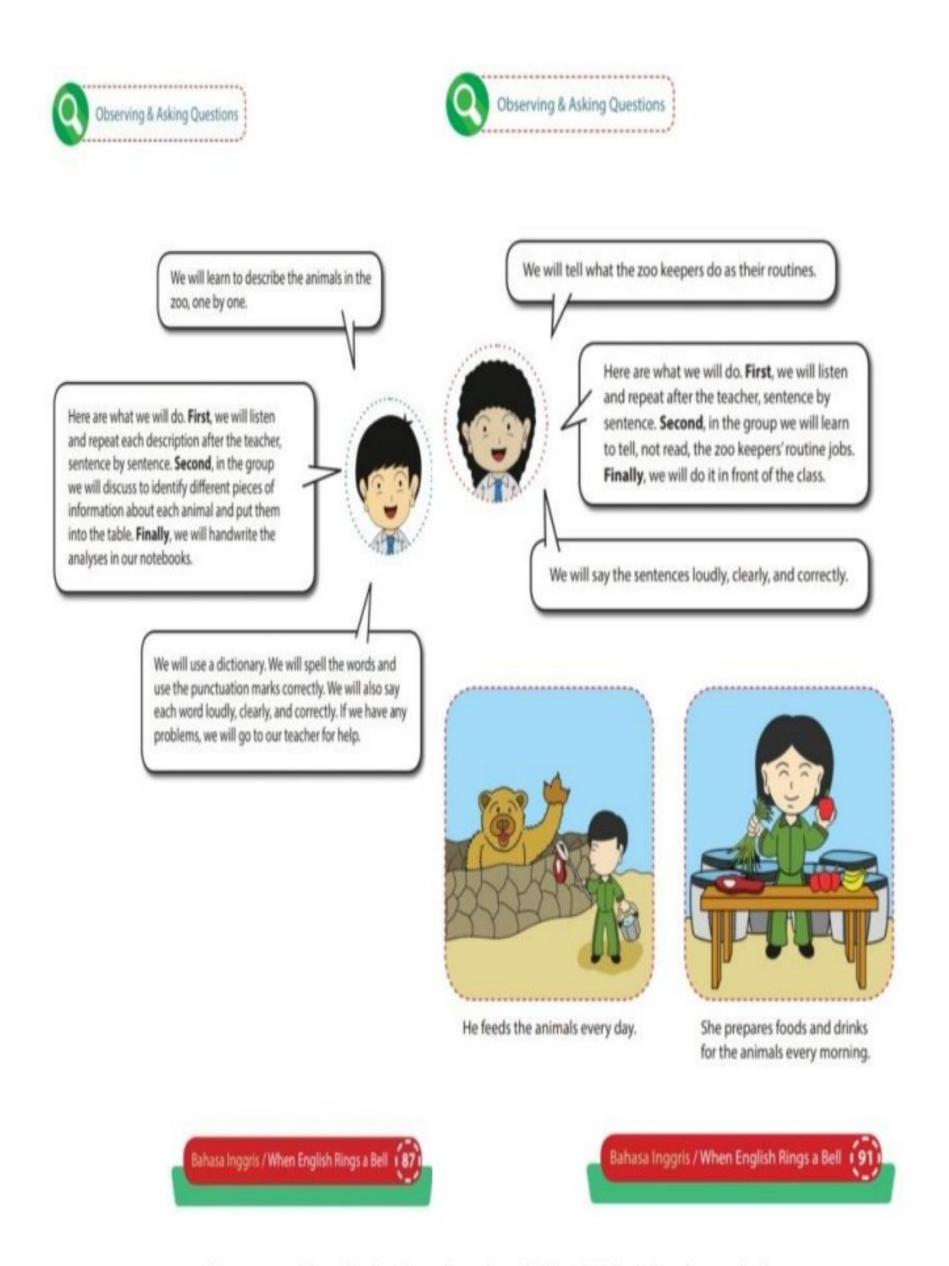
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³⁴Wachidah et al., When English Rings a Bell.



Source: English Textbook of SMP N 5 Padangsidimpuan

Here are what they will do, students will learn to describe the animals in a zoo one by one. First, students will listen and repeat each description at the teacher, sentence by sentence. Second, in the group students will discuss to identify different pieces of information about each animals. Finally, students will say word loudly, clearly and correctly.



Source: English Textbook of SMP N 5 Padangsidimpuan

B. Review of Related Finding

There were several researchers which have done the some research that related to this research, as follows:

Talita Fitri Ashari found there is a correlation between mastering vocabulary and speaking skills of second grade students of junior high school in Pakal Surabaya. This can be proved from the result of the product moment correlation that the value of r_{xy} = 0,72 us greater than the significance, either at the leave; of 1% or 5%.

Putri Aulia and Refnaldi they found that there is a correlation between vocabulary mastery and speaking ability at grade 8 of Junior High School. They were proved by the mean score 65 for vocabulary mastery and 68 for speaking ability. Moreover, there was strong correlation between students' vocabulary mastery and speaking ability. It was shown by the $r_{value} = 0,703$ was higher than $r_{table} = 0,361$.

Yuz Fernandez Uzer showed that the coefficient correlation of them was 0.630, rescreetively with the significance level 5% was 0.320. In other words the alternative hypothesis (H₀) was rejected.³⁷

Nina Aristi and Atni Prawati found that there was positive correlation between vocabulary mastery and speaking skill by second years students of SMP N 12 Bintan. The value of r table with the level

³⁶Aulia Putri and Refnaldi, "The Correlation between Students' Vocabulary Mastery and Speaking Ability at Grade 8 Of Junior High School," *Journal of English Language Teaching* 9, no. 1 (2020): 1–100, http://google.schoolar.co.id.

³⁵Talita Fitri Ashari, "The Correlation between Students' Vocabularies Mastery and Speaking Skill at SMP AL-Azhar Surabaya," *Journal of Applied Linguistics and Islamic Education* 03, no. 1 (2019): 201–30, http://google.schoolar.co.id p.227.

³⁷Yus Vernandez Uzer, "The Correlation between Vocabulary Mastery and English Speaking Ability of the Tenth Grade Students of Senior High School 12 Palembang" (Universitas PGRI Palembang, 2017), http://www.journal.unrika.ac.idp.258.

significance 5%= 0.361 and 1%= 0.463 the value of rxy was 0.68. The Ho hypothesis was rejected and the Ha was accepted.³⁸

Taslim and Andi Asrifan also found the result of data analysis showed that there was a significant positive correlation between student's mastery vocabulary and their speaking skill it can be seen by r_{value} was higher than the r_{table} . it showed that the student's mastery vocabulary (variable X) gave about 75.33% contribution to the speaking (variable Y) of the sample class 25.66% was influenced by other aspects.³⁹

Based on review of related finding above, the researcher also do this research with different place, time and instrument.

C. Framework of Thinking

Vocabulary is collection of words that person know or use in language. Vocabulary is the basic that must be learnt first by the learners. It is impossible to learn English without vocabulary. Moreover, the first lesson of human language is words.

Speaking is how the students give expression in oral which simple way. Definition speaking in Junior High School speaking is students can express the meaning of short transactional, interpersonal and personal in oral which simple way.

³⁸ Atni Pratiwi Nina Aristi, "The Correlation between Vocabulary Mastery and Speaking Ability in Describing People By Second Year Students of SMP N 12 Bintan," *Jurnal Online Mahasiswa* 4, no. 2 (2017): 1–9, http://www.neliti.com p.7.

³⁹ Andi Asrifan Taslim, "The Correlation between Students Vocabulary Mastery and Speaking Skill," *Journal of Advanced English Studies* 2, no. 2 (2019): 65–76, http://sastra.unifa.ac.id p.75.

Vocabulary plays an important role in speaking. To master speaking, students have to know many vocabularies because vocabulary can help students for speak with someone. By vocabulary, students able to comunicate with the others clearly, to help students to know what people say, and to help students share their idea.

Based on assumtion above, it can be assumpt that there was correlation between vocabulary mastery and speaking mastery.

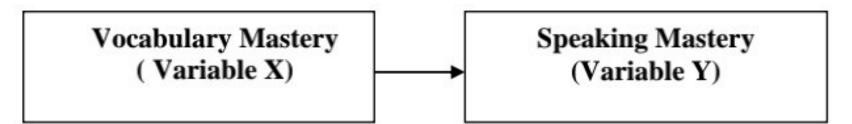


Figure 1 The Correlation Between Vocabulary Mastery and Speaking Mastery

D. Hypothesis

According to Suharsimi Arikunto, "Hypothesis is a provisional answer of result problem in research." So, it can be concluded the hypothesis is a tentative answer or prediction for the result of the research that we so.

Based on above explanation, the hypothesis of this research are:

- There is a significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.
- There is no significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.

⁴⁰Suharsimi Arikunto, Prosedur Penelitian Suatu Pendekatan Praktik (Jakarta: Rineka Cipta, 2006) p.172.

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CHAPTER III

RESEARCH METHOD

A. Place and time of the Research

This researchwas conducted at SMP N 5 Padangsidimpuan. It is located at Jl. Perintis Kemerdekaan, PadangsidimpuanNo. 61, 22731, Padangmatinggi, Kec. Padangsidimpuan Selatan, Kota Padangsidimpuan North Sumatera. The location is 3,8 km from the city center to the south, it takes about 10 minutes by public transportation. The process of the research was from Januari 2020 until December 2020.

B. Research Method

The type of this research was quantitative research. L. R. Gay said that quantitative research is based on the collections and analysis of numerical data. Usually it obtains from questionnaires, tests, checklist and other formal paper and pencil instruments. While, correlation research is attempted to determine whether and to what degree the correlation exist between two or more variables. At correlation research, the data will be collected and analyzed by used statistical analysis to get the real result.

From the quotation above, it can be concluded that the correlation quantitative is a kind of descriptive method. Descriptive method is describe and interpret things, such as the condition or relationship. "Descriptive method is a form of research to describe the phenomena that

⁴¹L. R. Gay and Petter Airaisan, Educational Research for Analysis and Application (America: Prentice Hall, 1992) p.8.

⁴²Airaisan p.12.

happened like natural phenomena or fictive phenomena. 43So, this method was used to describe the correlation between Vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.

C. Population and Sample

1. Population

The population of this research was the grade VIII students of SMPN 5Padangsidimpuan. The population number is shown in the table below:

Table 1
The Population of VIII Grade Students of SMP N 5
Padangsidimpuan

NO	Class	Total	
1	VIII-1	26 Students	
2	VIII-2	26 Students	
3	VIII-3	27 Students	
4	VIII-4	26 Students	
5	VIII-5	28 Students	
6	VIII-6	27 Students	
7	VIII-7	29 Students	
Т	OTAL	189 Students	

Source: School Data Administration of SMP N 5 Padangsidimpuan

2. Sample

Sample is the small group that is observed. It was selected from a larger group which consist of the individuals, items or events and referred to as a population. A sample is a portion of

⁴³Sanapiah Faisal dan Mulyadi Guntur, Metode Penelitian Dan Pendidikan (Surabaya: Usaha Nasional, 1982) p.119.

population. ⁴⁴L. R. Gay and Airaisan figures sample is a number of individuals for a study in such a way that they represent the larger group from who they were selected. ⁴⁵It means that sample is a part of the population that used as the respondent of a research. For this research, researcher used lottery technique to take the sample. Where the name of all the students was written on a small paper. Then, the small paper put into the small box and shake it as much as needed.

The formula for calculating the sample size of a known population was usedSlovin'sformula:

$$n = \frac{N}{1 + Ne^2}$$

n = sample size

N = population

 $e = significant error (5\% and 20\%)^{46}$

Based on formula above reseacher used20% limit of error tolerance and the sample can be decide as follows:

$$n = \frac{189}{1 + 189.0, 2^2}$$

$$n = \frac{189}{1 + 189.0,04}$$

$$n = \frac{189}{8.56}$$

n = 22

⁴⁴Asghar Razavieh Ary, Donald, Lucy Cheeser Jacobs, Chris Sorensen, Introduction to Research in Education (Canada: Wadsworth Cengage Learning, 2010) p.148.

⁴⁵Airaisan, Educational Research for Analysis and Application p.121.

⁴⁶Husein Umar, Metode Riset Bisnis (Jakarta: PT Gramedia Pustaka Utama, 2003) p.141-142. p. 141-142

From the calculation above, it can be concluded that the total of sample in this research was 22 students. They are from VIII-1 until VIII-7. 5 students were from VIII-1, 3 students were from VIII-2, 3 students were from VIII-3, 2 students were from VIII-4, 2 students were from VIII-5, 3 students were from VIII-6, and 4 students were from VIII-7. In this research, researcher used random sampling in taking the sample. The researcher's reason using random sampling technique was because of homogen. All of the sample has the same opportunities to choose, they have similar competence in English, no placement test, have same lessons and appropriated with the information that reseacher get from teacher.

D. Definition of the Operational Variable

Based on the title of this research, this research was consisted of two variables, so that the definitions of variables as follow:

Vocabulary Mastery (Variable X)

VocabularyMastery is a collection of words that are understood and used to comunicate in a language. Vocabulary mastery is considered to be important. The vocabularies of this research is about animal.

Speaking Mastery (Variable Y)

Speaking Mastery is students can express the meaning of short transactional, interpersonal and personal conversation in order to interact with the surronding in oral which simple way. In this research, just focus on describeabout animals.

E. Instrument of the Research

Instrument is the important thing in a research. Suharsimi said that "Instrument is a tool to help the researcher in collecting the data easier and systematically." The quality of the instrument will establish the quality of the data. The instruments of this research to collect the data was test. The instruments will be explained below:

1. Vocabulary Test

For the vocabulary test, this research used the multiple choice test consisting of 100 item in order to facilitate the students to answer the test. which form of multiple choice is with four options A, B, C and D.To find out the scores of the students answer, the researcher gives 1 score from each item. So, the maximum of test was 100.

Table 2 Indicators of Vocabulary Mastery

N o	Indicator	Topic	Number of Items	Total Items	Total Scores
1	Able to identifying the meaning	Name of Animals	4,5,9,11,12,14,20,31 ,52,69,76,81,87,88,9 9	15	15
	of word	Food of animals	6,16,17,19,35,45,48, 54,55,56,82,92,93,9 4,96	14	14
		Characteristic of the animal	7,10,39,41,46,51,59, 56,60,61,74,79,86	13	13
2	Able to remembering the word	Name of Animals	1,3,8,27,29,33,37,38 ,43,44,47,62,65,66,6 7,68,70,71,72,77,78, 84,97	23	23

⁴⁷Suharsimi Arikunto, *Prosedur Penelitian* (Jakarta: Rineka Cipta, 2002) p.134.

Food of animals	2,13,22,24,30,36,40, 49,53,57,63,64,73,8 3,91,97,95,98,100	19	19
Characteristic of the animal	15,18,21,23,25,26,2 8,32,33,34,43,50,75, 80,85,89,90	16	16
TOTAL			100

2. Speaking Test

In this research, the researcher used monologue speaking to do the test. Brown defined a test best a method of measuring a person's ability: knowledge or perfomance in a giving domain. 48

The used of oral test is to improve students speaking, measuring students abilities in speaking. Arthur Huges formulates that there are five elements should be measured in speaking test, namely; accent, grammar, vocabulary, fluency and comprehension. Those all indicators of speaking are correct, but researcher limited the indicators in scoring the test only on students need based on the purpose and defenition speaking in junior high school, based on teacher's book in PERMENDIKBUD K13 version. The indicators of speaking test can be seen in the table bellow:

⁴⁸H. Douglash Brown, Language Assessment Principle and Classroom Practice (San Francisco: Longman, 2004) p.3.

⁴⁹Arthur Huges, *Testing for Language Teachers* (USA: Cambridge University 1 Press, 1990) p.111.

Table 3 Indicators of Speaking Mastery

No	Aspect	Criterions	Score
1	Pronounciations	Almost Perfect	5
		There are some mistake but do not interfare the meaning	4
		There are some mistakes and interfere the meaning	3
		Many mistakes and interfere the meaning	2
		Too much mistakes and interfere the meaning	1
2	Intonation	Almost perfect	5
		There are some mistakes but do not interfere the meaning	4
		There are some mistakes and interfere the meaning	3
		Many mistakes and interfere the meaning	2
		Too much mistakes and interfere the meaning	1
3	Fluency	Very good	5
		Good	4
		Enough	3
		Not so bad	2
		Bad	1
4	Accuracy	Very good	5
		Good	4
		Enough	3
		Not so bad	2
		Bad	1

ource: Teacher's English Textbook of SMP N 5 Padangsidimpuan

F. Validity and Reliability of the Instruments

Validity and realibility are the important thing toward the research.

In this research, there were two instrument that had been identified the validity and reliability, as follow:

Validity

Validity is a tool that used to measure the test. AnasSudijonostate "Validity is a characteristic of the good test". To get the validity of an achievement, two ways can be used:

- a) Totality of the test validity
- b) Item validity 50

In this research, researcher had used item validity to find out the validity of instrument. Item Validity is a part of the test as a totality to measure the test by item. Based on the 125 questions, the 107 question was valid. The questionnaires were not valid was 18 questions they wasnumber: 14, 18, 23,26, 35, 40, 44, 47, 48, 58, 68, 74, 75, 79, 86, 114, 115, and number 118.

To know the validity of the each question, this research refered to list r biserial with r. If $r_{count} > r_{table}$ the test is classify valid. So, to get the validity test, the researcher used the formula of r pointbiserial as follow:

$$r_{pbi=\frac{M_{p-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

Where

: Coefficient item validity r_{pbi} : Mean Score of the total score M_p : Standart deviation of the total score SD_{t}

P : Presentation of the right answer of the item test validity : Presentation of the wrong answer of the item test q validity 51

2. Reliability

⁵⁰Anas Sudijono, Pengantar Evaluasi Pendidikan (Jakarta: PT Raja Grafindo Persada, 1996) p.163.

⁵¹Anas Sudijono p.166.

An instrument of the research must be reliable. Reliability is the degree of consistency of a measure. A test will be reliable when it gives the same repeated result under the same condition. The formula of reliability test used by Spearman Brown, is:

$$ri\frac{2rb}{1+rb}$$

Where:

ri = internal reliability of all instrument

rb= correlation product moment between the first and second hemispheres.⁵²

G. Techniques of Data Collection

Collecting data in this research is through testing. Multiple choice test was performed to get the data about the students' vocabulary mastery and speaking mastery to get the degree or not. The process was explained as follows:

- The researcher entered to the each of classroom for doing research.
- The researcher introduce self, explain the aim, and asked permission to the sample.
- The researcher give the test to the students.
- 4) The researcher give 45 minute for answering test.
- The researcher controlled the class while students were answering the test.
- The researcher collected all of the instrument.
- The researcher brought it to home and analyzed the data.

⁵²Sugiyono, Metode Penelitan Kuantitatif Dan Kualitatif Dan R&D (Bandung: Alfabeta, 2008) p.121.

H. Techniques of Data Analysis

After the processed of data collection, the researcher analyzed the data by using quantitative data. In quantitative research the most suitable analysis was using the statistical process and following steps:

- Identified and corrected the answer the subject research from the tests.
- 2) Identified mean, median and modus by using descriptive statistic. It is the second ways of presenting the data analysis. According to Anas Sudijono, the three formulas above had been explained bellow⁵³:
 - a) Know the mean (average) score used the formula : $M(x) = \frac{\sum fx}{N}$
 - b) Know the median score used the formula:

$$Me = \ell + \left(\frac{\frac{1}{2}n - fkb}{fi}\right)xi$$

c) Know the modus score used the formula:

Mo =
$$\ell + \left(\frac{fa}{fa+fb}\right)xi$$
 atau $M_0 = U - \left(\frac{fb}{fa+fb}\right)xi^{54}$

Table 4
Interpretation of Mean Score

No	Interval	Predicate	
1	80-100	Very Good	
2	70-79	Good	
3	60-69	Enough	
4	50-59	Less	
5	0-49	Fail	

3) Identified the normality test

⁵³Sugiyono p.81.

⁵⁴Sugiyono p.82.

Normality test is used to know whether the data of research is normal or not. To know the normality, the researcher use *Chi-Square* formula. The formula is as follow:

$$x^2 = \sum \left(\frac{f_o - f_h}{f_h}\right)^2$$

Where:

 X^2 = Value of Chi-Square

F_o = Observed Frequency

F_e= Expected Frequency⁵⁵

To calculate the result of Chi-Quadrate, it was used 5% significant level. If result $x^2_{count} < x^2_{table}$, it can be concluded that data is distributed normal.

To test Hypothesis

To know the correlation between variable X and Y was calculated by applying product moment formula. it has been refer to list r product moment with 5% significant level. The hypothesis was accepted If $r_{count} > r_{table}$. The formula of Product Moment explained below:

$$\mathbf{r}_{xy} = \frac{N \sum XY - (\sum X)(\sum Y)}{\sqrt{[N \cdot \sum X^2} - (\sum X^2)][N \cdot \sum Y^2 - (\sum Y)^2]}$$

Where:

r_{xv} = Coefficient Correlation between variable X and Y

 $\sum X$ = Thesum scores of variable X

⁵⁵Ahmad Nizar Rangkuti, Statistik Untuk Penelitian Pendidikan (Medan: Perdana Publishing, 2015) p.74.

= The sum scores of variable Y $\sum Y$

 $\sum XY = Product X dan Y$

= Total of sample.56

5) Find the amount of contribution variable X and Y it can be definite the formula determinant correlation:

$$KD = r^2 \times 100\%$$

Description;

KD = coefficient of determination

r = the correlation value obtained⁵⁷

 Then, testing the truth of significant correlation, used the formula t_{count} with the formula

$$T_{\text{count}} = r \frac{\sqrt{n-2}}{\sqrt{1-r^2}}$$

Description;

t = the canculated t test value

r = correlation coefficient

 r^2 = coefficient of determination

 $n = the total sample^{58}$

The result should been appropriated with interpretation to the index of product moment of correlation. The interpretation of the result could be seen in the following table:

⁵⁸Ahmad Nizar Rangkuti p.103.

⁵⁶Anas Sudjiono, Pengantar Statistik Pendidikan (Jakarta: Pt Raja Grapindo, 2005) p.193.
⁵⁷Ahmad Nizar Rangkuti, Statistik Untuk Penelitian Pendidikan p.102.

Table 5
The Criteria Score Interpretation

Degree correlation	
Very low	
Low	
Midle	
High	
Very High	

Source: Anas Sudjiono in book Pengantar Statistik Pendidikan

CHAPTER IV

RESULT OF THE RESEARCH

In this chapter, this research discussed the result of testing, in order to evaluate the correlation between vocabulary mastery and speaking mastery at grade VIII Students of SMP N 5 Padangsidimpuan. The researcher has calculated the data by using descriptive method. Applying the quantitative analysis, this research used the formulation "r" Product Moment. Then the researcher described the data as follow:

A. The Description of the Data

To facilitate understanding of the result of this study, the data described by sequence of variables. Description of research result started from variable (X) was Vocabulary Mastery, and variable (Y) was Speaking Mastery.

1. Vocabulary Mastery

In this part, this research showed the result of the research that has been done to the dependent variable that is Vocabulary Mastery. In this research, the researcher present 100 item question of multiple choice. For each number get 1 score if the answer was true.

After calculating then scores, it was found that the highest score was 84 and the lowest score was 65 (see appendix 13: Variable X Vocabulary mastery). To complete this research, it was needed for the researcher to calculate the mean score was 73,60 the median score was 73,5 and the mode was 73,82. Where mean was the score which represent the general value that was achieved by the students.

Meanwhile, median was the score in the middle of the score which divides a distribution of data into two equal part and mode is a score which has the most frequency. So, the specification calculation was described in the table below:

Table 6
The Resume of Variable Score of Vocabulary Mastery

NO	Statistics	Variable X
1	High Scores	84
2	Low Score	65
3	Range	19
4	Interval	4
5	Mean Score	73,60
6	Median Score	73,5
7	Mode	73,82
8	Standart Deviation	17,88

Table 5 presented the conclusions of the result from students' answer. It shows that mean is 73,60 it means that the students in vocabulary mastery was in good predicate. To know revelation of data was done to group the variable score of vocabulary mastery which the total classes 5 and interval 4.

Then, the computed of the frequency distribution of the students's score of group can be appied in to table frequency distribution as follow:

Table 7
The Frequency Distribution of Vocabulary Mastery

Interval	Mid Point	Frequency	Percentage
65 - 68	66,5	3	13.63%

69 – 72	70,5	6	27.28%
73 – 76	74,5	8	36.37%
77 – 80	78,5	3	13.63 %
81 – 84	82,5	2	9.09%
To	otal	22	100%

Based on the table above, it was known that the variable revelation of vocabulary mastery shown that the respondent an interval 65-68 were 3 student (13.63 %), interval 69-72 were 6 students (27.28%), interval 73-76 were 8 students (36.37%), interval 77-80 were 3 students (13.63%) and last interval 81-84 were 2 students (9.09%).

In order to get a description of the data clearly and completely, the researcher presents them in histogram on the following figure:

Frequency

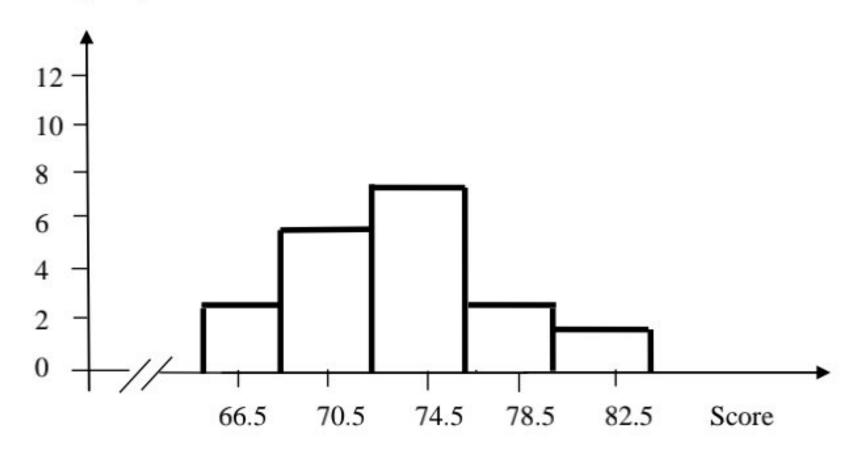


Figure 1: The Histogram of Vocabulary Mastery at grade VIII Students of SMP N 5 Padangsidimpuan

By looking the above histogram, it can be said that the curve was normal. The degree of students' (respondent) in agreement of vocabulary mastery were the highest at the middle position.

2. Speaking Mastery

The resume score of variable speaking mastery at grade VIII students' of SMP N 5 Padangsidimpuan has been gotten as table below:

Table 8
The Resume of the Variable Score of Speaking Mastery

No	Statistic	Variable Y
1	High Score	80
2	Low score	60
3	Range	20
4	Interval	4
5	Mean score	69.77
6	Median score	70
7	Mode	71.5
8	Standart deviation	22,62

From the above table, the researcher got high score was 80, low score was 60, mean score was 69.77, median score was 70, mode score was 71.5. The data could be seen in the appendix 14 (variable Y : Speaking mastery)

Based on the calculating of mean score, it was 69.77 it means that the students' speaking mastery was enough predicate. To know the revelation of data was done to group the variable score of speaking mastery which the total classes 5 and interval 4. Then, the computed

of the frequency distribution of the students' score of group can be applied in to table frequency distribution as follows:

Table 9
The Frequency of Distribution of Speaking Mastery

Interval	Mid Point	Frequency	Percentage	
60 - 63	61,5	2	9.09%	
64 - 67	65,5	6	27.27 %	
68 - 72	70,5	8	36.37%	
73 - 76	74,5	4	18.18%	
77 - 80	78,5	2	9.09%	
Т	otal	22	100%	

Based on table above, it was known that the variable revelation of speaking mastery shown that the respondent an interval 60-63 were 2 students (9.09%), interval 64-67 were 6 students (27.27%), interval 68-72 were 8 students (36.37%), interval 73-76 were 4 students (18.18%) and the last interval 77-80 were 2 students (9.09%).

In order to get a description of the data clearly and completely, the researcher presents them in the histogram on the following figure:

Frequency

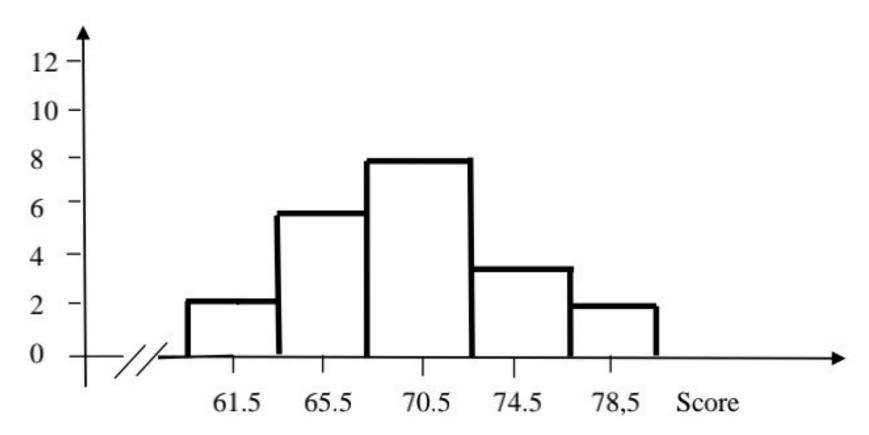


Figure 2: The Histogram of Speaking Mastery at grade VIII students of SMP N 5 Padangsidimpuan

By looking the above histogram, it can be said that the curve was normal. The degree of students' (respondent) in agreement of speaking mastery were the highest at the middle position.

B. Testing of Hypothesis

1. Normality Test

After got the resume score of variable X and variable Y, the data was analyzed by using Chi-Square formula to know the data was normal or not. Normality test was as the requirement of test before go to the testing hyphothesis.

Table 10 Normality and Homogenity Data X dan Data Y

	Norma	lity Test	Homogen	eity Test
Class	t _{count}	t _{table}	f_{count}	f_{table}
Data X	2,549	7,815	1.013	< 2.12
Data Y	6,522	7,815		

Based on the table above, the score of data X = 2.549 < 7.815 with n = 22 and data Y = 6.522 < 7.815 with n = 22 and real level α 0.05. It means that data X dan data Y were distributed normal. It can be seen in appendix 15.

The coefficient of $F_{count} = 1.013was$ compared with $F_{table} = 2.12$ Where f_{table} was determined at real α 0.05, and the different numerator dk = N - 1 = 22-2 = 20. So, by using the list of critical value of F distribution is got F 0.05 = 2.12 it showed that F_{count} 1.013 < F_{table} 2.12. It shows that both variable X and Y were homogeneous. The calculation can be seen on the appendix 16.

2. Testing of Hyphothesis

Hypothesis testing aims to determine the correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan by using the product moment formula. Before testing the hypothesis, first performed the calculation of the scores obtained by the respondents as below:

$$X = 1596$$

$$Y = 1530$$

$$X^2 = 116274$$

$$Y^2 = 107 050$$

$$XY = 111 \ 410$$

By using the values above, calculated the value of correlation between variable X and Y:

$$\Gamma_{XY} = \frac{n \sum xy - (\sum x) (\sum y)}{\sqrt{[n \sum x^2 - (\sum x^2)][n \sum y^2 - (\sum y)^2]}}$$

$$= \frac{22.111 \cdot 410 \cdot (1596)(1530)}{\sqrt{[2.116 \cdot 274 \cdot (1596]^2][22.107 \cdot 050 \cdot (1530]^2]}}$$

$$= \frac{2.451 \cdot 020 \cdot 2.441 \cdot 880}{\sqrt{[2.558 \cdot 028 \cdot 2.547 \cdot 216][2.355 \cdot 100 \cdot 2.340 \cdot 900}}$$

$$= \frac{9.140}{\sqrt{(10.812)(14.200)}}$$

$$= \frac{9.140}{\sqrt{153.530.400}}$$

$$= \frac{9.140}{12.390.738}$$

= 0.737

H_a: there is a significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.

H_o: there is no significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan.

So, based on the calculation between variabel X and Y by r_{xy} , the researcher got 0.737. The calculating product moment by getting correlation coefficients $r_{xy} = 0.737$ was more than $r_{table} = 0,423$ on 5% and 1% = 0,537. The result showed that there was a significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan. It means that H_a is accepted and H_o is rejected. It had been written in the table of coefficient correlation interpretation.

Table 11 Categories Value Correlation Coefficient and Strength Correlation

No	Value of high r	Interpretation
1	0.90 - 1.00	Very good
2	0,70 - 0,90	Good
3	0,40 - 0,70	Enough
4	0,20 - 0,40	Low
5	0.00 - 0.20	Lowest

To look for the contribution of Variable X and Y as follows:

KP : the score of determine coefficient

r : the score of the coefficient correlation

KP : $r^2 \times 100\%$

 $: (0,737)^2 \times 100\%$

: 0.5431 x 100%

: 54.31%

Based on X variable (vocabulary mastery) and Y variable (speaking mastery), the result of contribution was 0,737 belong to good category contribution variable has KP 54.31% and 45.69% influenced by other variable.

Testing the truth of significant correlation, used the formulate t_{count} :

$$T_{count} = \frac{r\sqrt{n-2}}{1-r^2}$$

$$= \frac{0.737\sqrt{22-2}}{1-(0.737)^2}$$

$$= \frac{0.737\sqrt{20}}{1-0.5431}$$

$$= \frac{0.737 \cdot 4.472}{0.45}$$

$$= \frac{3.295}{0.45}$$

$$= 7.322$$

Based on the calculative above, $t_{count} > t_{table}$ namely t_{count} : 7,322 and t_{table} on significant 5% = 2,086 and on 1% = 2,845. It means that there was significant correlation between two variables that it was

said that the validity of the contribution of variable X to variable Y was valid or could be say that the validity of the distribution of variable X and variable Y was "accepted".

C. The Discussion of the Result

After did the research, the researcher found that the correlation between vocabulary mastery and speaking mastery students at grade VIII Students of SMP N 5 Padangsidimpuan is in high correlation. The researcher discussed the result and compared it with result in research related finding. But, previously, the researcher said that there was no research that was exactly the same as the title of this study, namely "The Correlation between vocabulary mastery and speaking mastery". So, the researcher compared with the other research one by one the variable of this research, such as:

First, the research done by Talita Fitri Ashari, she concluded that there is a correlation between mastering vocabulary and speaking skills of second grade students of junior high school in Pakal Surabaya. The result was $r_{count} > r_{table}$ (0,72 > 0,250) which means the hypothesis was accepted.⁵⁹ Second, the researcher done by Yus Vernandez Uzer, he concluded that there is a positive correlation between vocabulary mastery and English speaking ability of the Tenth Grade Students of Senior High

⁵⁹Talita Fitri Ashari, "The Correlation between Students' Vocabularies Mastery and Speaking Skill at SMP AL-Azhar Surabaya," *Journal of Applied Linguistics and Islamic Education* 03, no. 1 (2019): 201–30, http://google.schoolar.co.id. School 12 Palembang. The result was $(r_{count} \ 0.630 > r_{table} \ 0.320)$. Third, Putri Aulia and Refnaldi they found that there is a correlation between vocabulary mastery and speaking ability at grade 8 of Junior High School. They were proved by the mean score 65 for vocabulary mastery and 68 for speaking ability. Moreover, there was strong correlation between students' vocabulary mastery and speaking ability. It was shown by the rvalue = 0,703was higher than $r_{table} = 0,361.^{61}$

So far exactly there is no research that the same title with this research. It was proved that this reasearch about vocabulary mastery and speaking mastery was rather different with the other research. In other words it was supported by this research and it was proved by testing hypothesis of the research. This fact can be seen from $r_{count} > r_{table}$ (0,737 > 0,423). So, it is clearly vocabulary mastery have the significant correlation to students speaking mastery. Vocabulary mastery is needed and really important in speaking.

D. Limitation of the Research

The researcher limits this research, as follow:

1. The researcher did not know how serious the students were in answering the questionnaire.

⁶⁰Yus Vernandez Uzer, "The Correlation between Vocabulary Mastery and English Speaking Ability of the Tenth Grade Students of Senior High School 12 Palembang" (Universitas PGRI Palembang, 2017), http://www.journal.unrika.ac.id.

⁶¹Aulia Putri and Refnaldi, "The Correlation between Students' Vocabulary Mastery and Speaking Ability at Grade 8 Of Junior High School," Journal of English Language Teaching 9, no. 1 (2020): 1-100, http://google.schoolar.co.id.

- The researcher was in capable of measuring honest aspects of the students in answering the test that given. until possibly the students cheat or guess.
- The researcher did not know wether students' concentrated or not in answering the test and questionnaire, and time was limited.

CHAPTER V

CONCLUSION AND SUGGESTION

A. Conclusion

After getting the result of research work, the research come to describe the data as follow:

- Students vocabulary mastery at grade VIII students of SMP N 5
 Padangsidimpuan was "good" getting mean score were 73,60.
- Students speaking mastery at grade VIII students of SMP N 5
 Padangsidimpuan was "enough" by getting mean score were 69,77.
- 3. There was a significant correlation between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan. On the result of calculating data, the hypothesis H_a was accepted whereas H_o was rejected. The calculating of product moment by getting correlation coefficient r_{xy} = 0.737. The significant correlation level was done by looking r_{table} (rt) on significant level 5% was 0,423. The hypothesis (H_a) in this research was accepted namely $r_{count} > r_{table}$ (0.737 > 0.423). Then, categories value correlation coefficient between vocabulary mastery and speaking mastery at grade VIII students of SMP N 5 Padangsidimpuan that showed the correlation in to high category.

B. Suggestion

Here, the researcher give information as follows:

- The headmaster of SMP N 5 Padangsidimpuan was hoped to support all English teacher to teach well and provide facilities involves with learning English.
- The English teacher should give a positive stimulus to increase students speaking mastery and also as references in teaching English.
- 3. The researcher hopes that the others researchers who want to conduct a research related to this research to find the others influence. In order to motivate readers more critics and consider whatever they read and the researcher hopes to another researcher to do the research with the same title with this research namely "The Correlation between Vocabulary Mastery and Speaking Mastery" and get the better value.

REFERENCES

- A S Hormby. Oxford Learners' Pocket Dictionary. Fourth Edi. New york: Oxford University, 2008.
- Abdelrahim, Afaf, and Jalal Eldin. "The Role of Vocabulary Learning Strategies in Enhancing EFL Learners' Writing Skills." *International Journal of Humanities Social Sciences and Education* 4, no. 8 (2017): 41–50. http://dx.doi.org/10.20431/2349-0381.0408006.
- Afna, Mauloeddin. "The Correlation Between Vocabulary and Speaking Skill." Journal of Linguistics, Literature & Language Teaching IV, no. 1 (2018): 43–71. http://sinta.ristek.go.id.
- Ahmad Nizar Rangkuti. Statistik Untuk Penelitian Pendidikan. Medan: Perdana Publishing, 2015.
- Airaisan, L. R. Gay and Petter. Educational Research for Analysis and Application. America: Prentice Hall, 1992.
- Alqahtani, Mofareh. "The Important of Vocabulary in Language Learning And How to Be Taught." *International Journal of Teaching and Education* III, no. 3 (2015): 21–34. https://doi.org/10.20472/TE.2015.3.3.002.
- Anas Sudijono. Pengantar Evaluasi Pendidikan. Jakarta: PT Raja Grafindo Persada, 1996.
- Anas Sudjiono. Pengantar Statistik Pendidikan. Jakarta: Pt Raja Grapindo, 2005.
- Arikunto, Suharsimi. Prosedur Penelitian Suatu Pendekatan Praktik. Jakarta: Rineka Cipta, 2006.
- Arthur Huges. Testing for Language Teachers. USA: Cambridge University 1 Press, 1990.
- Ary, Donald, Lucy Cheeser Jacobs, Chris Sorensen, Asghar Razavieh. Introduction to Research in Education. Canada: Wadsworth Cengage Learning, 2010.
- Ashari, Talita Fitri. "The Correlation between Students' Vocabularies Mastery and Speaking Skill at SMP AL-Azhar Surabaya." Journal of Applied Linguistics and Islamic Education 03, no. 1 (2019): 201–30. http://google.schoolar.co.id.
- Brown, H Douglas. Teaching by Principles an Interactive Approach to Language

- Pedagogy, 2007.
- David P Harris. Testing English as a Second Language. New york: Mc Graw Hill book company, 1996.
- H. Douglash Brown. Language Assessment Principle and Classroom Practice. San Francisco: Longman, 2004.
- Hendriati Afebi. "Factors Affecting Students' Difficulties in Speaking Performance of the Tenth Grade Students of SMA Negeri 1 Tiworo Kepulauan." Journal of English Education and Teaching 3, no. 1 (2019): 95– 105.
- Kathleen M.Bailey. Practical English Language Teaching 1st Edition. New York: The Mc. Graw-Hill Company, n.d.
- Nina Aristi, Atni Pratiwi. "The Correlation between Vocabulary Mastery and Speaking Ability in Describing People By Second Year Students of SMP N 12 Bintan." *Jurmal Online Mahasiswa* 4, no. 2 (2017): 1–9. http://www.neliti.com.
- Nunan, David. Practical English Language Teaching. Singapore: Mc Graw Hill, 2003.
- Putri, Aulia, and Refnaldi. "The Correlation between Students' Vocabulary Mastery and Speaking Ability at Grade 8 Of Junior High School." *Journal of English Language Teaching* 9, no. 1 (2020): 1–100. http://google.schoolar.co.id.
- Richards, Jack, and Richard W Schmidt. Longman Dictionary of Language Teaching and Applied Longuistics. Fourth edi. UK: Person education, 2010.
- Sanapiah Faisal dan Mulyadi Guntur. Metode Penelitian Dan Pendidikan. Surabaya: Usaha Nasional, 1982.
- Shiamaa Abd EL Fattah Torky. "The Effectiveness of a Task- Based Instruction Program in Developing the English Language Speaking Skills of Secondary Stage Students," 2006. https://www.awej.org.
- Siregar, Fitri Rayani. "Using the Word Card Technique in Teaching Vocabulary."

 English Education: English Journal for Teaching and Learning 4 (2016): 1–
 13.

 http://schoolar.google.co.id/scholar?oi=bibs&cluster=197292449553102495
 7&btnl=1&hl=en
- Siregar, Sri Rahmadhani. "Using Direct Method in Teaching Speaking." English

- Education: : English Journal for Teaching and Learning 4 (2016): 34–47. http://schoolar.google.co.id/scholar?oi=bibs&cluster=741582778013806595 9&btnl=1&hl=en
- Sugiyono. Metode Penelitan Kuantitatif Dan Kualitatif Dan R&D. Bandung: Alfabeta, 2008.
- Suharsimi Arikunto. Prosedur Penelitian. Jakarta: Rineka Cipta, 2002.
- Taslim, Andi Asrifan. "The Correlation between Students Vocabulary Mastery and Speaking Skill." *Journal of Advanced English Studies* 2, no. 2 (2019): 65–76. http://sastra.unifa.ac.id.
- Umar, Husein. Metode Riset Bisnis. Jakarta: PT Gramedia Pustaka Utama, 2003.
- Uzer, Yus Vernandez. "The Correlation between Vocabulary Mastery and English Speaking Ability of the Tenth Grade Students of Senior High School 12 Palembang." Universitas PGRI Palembang, 2017. http://www.journal.unrika.ac.id.
- Wachidah, Siti, Asep Gunawan, Diyantari, and Yuli Rulani Khatimah. When English Rings a Bell. Jakarta Pusat Kurikulum dan Perbukuan, Balitbang, Kemendikbud, 2018.
- Wang, Zhiqin. "Developing Accuracy and Fluency in Spoken English of Chinese EFL Learners." English Language Teaching 7, no. 2 (2014): 110–18. https://doi.org/10.5539/elt.v7n2p110.
- Yates, Lynda, and Beth Zielinski. Give It a Go: Teaching Pronunciation to Adults. Australia: AMEP Research Centre on behalf of the Department of Immigration and Citizenship Macquarie University Sydney, 2009.

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Assalamu'alaikum Wr. Wb.

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Sehubungan dengan itu, kami mohon bantuan Bapak/Ibu untuk memberikan izin penelitian sesuai dengan maksud judul diatas.

Demikian disampaikan, atas kerja sama yang baik diucapkan terimakasih.

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Demikianlah surat keterangan ini dibuat dengan sebenarnya untuk dipergunakan seperlunya.

Padangsidimpuan, 15 Desember 2020

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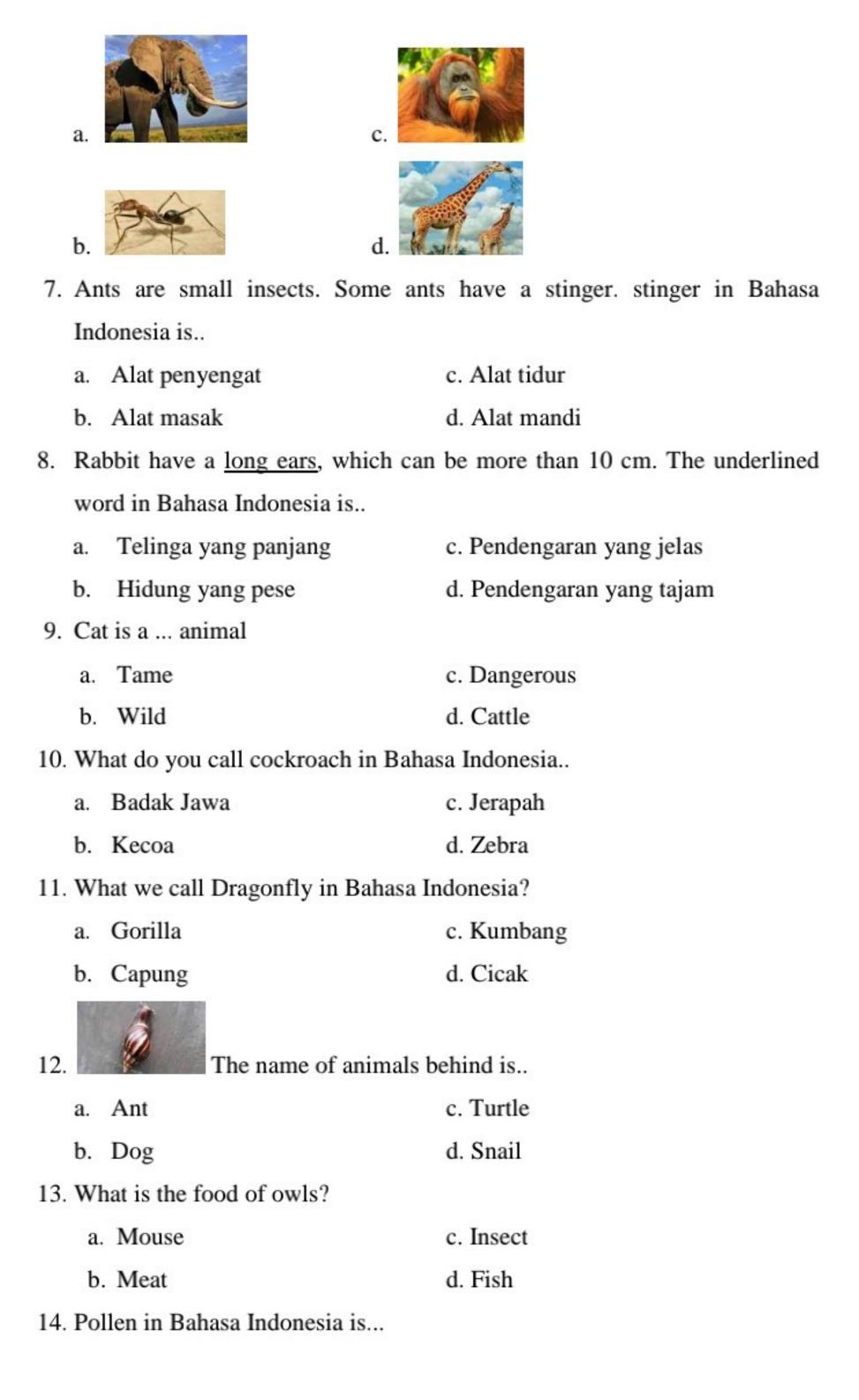
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Appendix 1

Vocabulary Test

			Room:
Instru	ctio	n:	
2. 3.	Re:	rite your name and your room on to ad question carefully before you a oose one the best answer. By before doing the test!	10 (50), 10 (10 ± 0.0) To • 0.00 (0.0)
A. Ans	swer	the question bellow by giving cre	oss (X) in the correct answer!
1.		The picture behind in	English is
	a.	Turtle	c. Flamingo
	b.	Snail	d. Snake
2.	Wł	nich animals can fly?	
	a.	Bird	c. Fish
	b.	Cat	d. Bear
3.	Wł	nat is the food of dolphin?	
	a.	Fish	c. Spinach
	b.	Nugget	d. Banana
4.	Be	etle are an insect that live anyv	where from 2 days to as long as 11
	mo	onths. He has small body and can	flying. The underlined word in Bahasa
	Ind	lonesia is	
	a.	Kupu-kupu	c. Burung gagak
	b.	Serangga	d. Kumbang
5.	Gra	ass is the favorite food of deer. Gr	ass in Bahasa Indonesia is
	a.	Wortel	c. Rumput
	b.	Kacang	d. Sayur
6.	An	imals that used their long trunks	to put food and water in their mounths
	is		

Name:



1	b.	Serbuk Sari	d. Daun
15.	Bea	ar is a wild animal. The und	lerlined word in Bahasa Indonesia is
;	a.	Beruang	c. Macan tutul
1	b.	Katak	d. Gorilla
16.	Ra	abbit has foot	
	a.	2 foot	c. 6 Foot
	b.	4 foot	d. 8 foot
17.	Ba	its are the only mammals that	at can fly. Bats in Bahasa Indonesia is
;	a.	Kelelawar	c. Semut
1	b.	Unta	d. Cacing
18.	Ev	ery day rabbit eats carrot	and fresh vegetables. Fresh vegetables in
	Bal	hasa Indonesia is	
;	a.	Sayur-sayuran yang segar	c. Sayur mayur
1	b.	Sayur	d. Buah
19.		In Englis	sh means
;	a.	Sheep	c. Bird
1	b.	Chicken	d. Pig
20.	Lec	opard in Bahasa Indonesia is	s
	a.	Macan Tutul	c. Semut
1	b.	Domba	d. Penyu
21.	The second	What is the	e food of that animals
	a.	Mouse	c. Goat
1	b.	Buffalo	d. Bird
22.	4	In English we	e call

c. Bunga

a. Kelopak

a.	Peanut	c. Chili
b.	Milk	d. Carrot
23. B	uah in English is	
a.	Fruit	. Grains
b.	Insect	l. Vegetable
24. Be	one in Bahasa Indonesia is	
a.	Daging	c. Bangkai
b.	Tulang	d. Kulit
25. W	orm in Bahasa Indonesia is	
a.	Daging	c. Kacang
b.	Cacing	d. Serangga
26. El	ephant, goat and horse eat	
a.	Grass	c. Water
b.	Bread	d. Apple
27. W	hat does grain means in Bah	asa Indonesia
a.	Biji-bijian	c. Buah-buahan
b.	Daging	d. Sayuran
28. El	ephants eat grass, fruit and	branches. The underlined word in Bahasa
In	donesia is	
a.	Ranting, rumput dan sayur	c. Tangkai, buah dan tomat
b.	Rumput,buah dan ranting	d. Dedaunan
29. Ca	at likes eating fish and speci	al snacks for cats. Fish in Bahasa Indonesia
is.		
a.	Ikan hiu	c. Tuna
b.	Ikan	d. Tulang
30. Pl	ant in Indonesia is	
a.	Daun	c. Ranting
b.	Tumbuhan	d. Pohon
31. M	onkey likes banana. In Indon	esia banana means
a.	Kurma	c. Anggur
b.	Pisang	d. Pepaya

32. What is the meaning of pe	eanut in Bahasa Indonesia?
a. Kacang	c. Cabai
b. Jagung	d. Kelapa
33. Bird have feather, wings a	and
a. Trunk	c. Teeth
b. Jaw	d. Beak
34. The picture behind in Eng	glish is
a. Meat	c. Honey
b. Vegetable	d. Fish
35. What is giraffe food?	
a. Peanut	c. Milk
b. Water	d. Juice
36. what is	s the food of that animals
a. Zooplankton	c. Worm
b. Fish	d. Insect
37. in Eng	lish is
a. Lettuce	lish is c. Pumpkin
a. Lettuce	c. Pumpkin
a. Lettuceb. Peanut	c. Pumpkin
a. Lettuceb. Peanut38. Pinguin in English is	c. Pumpkin d. Tomato
a. Lettuceb. Peanut38. Pinguin in English isa. Penguin	c. Pumpkin d. Tomato c. Snake d. Carrot
a. Lettuceb. Peanut38. Pinguin in English isa. Penguinb. Camel	c. Pumpkin d. Tomato c. Snake d. Carrot
 a. Lettuce b. Peanut 38. Pinguin in English is a. Penguin b. Camel 39. Memanjat in English mea 	c. Pumpkin d. Tomato c. Snake d. Carrot ns

a. Berjalan
b. Bekerja
d. Berlari
41. Animals has long body, not have foot and lives in forest and dangerous is...









- 42. is a herbivors
 - a. Giraffe
- c. Tiger
- b. Watermelon
- d. Bear



- 43. What is the name of that animals...
 - a. Koala

c. Orangutan

b. Monkey

d. Roar



- 44. The picture behind in English is...
 - a. Corn

c. eggplant

b. Peanut

d. Spinach



- What is the food of animals behind is
- a. Banana

45.

c. Duku

b. Watermelon

- d. Peanut
- 46. Merayap in English...

	a.	Run	c. Koar
	b.	Hop	d. Creep
47.	Α.	has long neck	
	a.	Pigeon	c. Bird
	b.	Eagle	d. Tiger
48.	Wł	nat is the food of animal that pictu	re behind
	a.	Fruit	c. Fried rice
	b	. Chocolate	d. Grass
49.	Th	e characteristic of kangaroo is has	pocket. in Indonesia pocket means
	a.	Bulu	c. Uang
	b.	Sayap	d. Kantong
50.	Me	engaum in English is	
	a.	Migrate	c. Roar
	b.	Rove	d. Slither
51.		What is the food of	flamingo
	a.	Shrimp	c. Juice
	b.	Water	d. Grape
52.	Wł	hat do we call mencakar in English	n
	a.	Hibernate	c. Purr
	b.	Scratch	d. Catch
53.	Wl	nat is the characteristic of rabbit?	
	a.	Can run	c. Can jump
	b.	. Can fly	d. Can creep
54.	Giı	raffe has two small horns on it is	head. The underlined words in Bahasa
	Ind	lonesia is	
		Memiliki 2 tanduk kecil di kepal Memiliki 3 tanduk kecil di kepal	
		in in the purity of the purity	

- c. Memiliki 2 tanduk panjang di kepala nya
- d. Memiliki 2 tanduk kecil di hidung nya



55. The food of crab is a small fish, alga, worm and

mushrooms. The underlined word in Bahasa Indonesia is..

- a. Ikan, alga, cacing, jamur
- b. Ikan kecil, cacing, jamur
- c. Ikan, cacing, jamur
- d. Ikan kecil, ganggang, cacing dan jamur
- 56. Fox is an ...
 - a. Mamals

c. Omnivore

b. Reptile

- d. Amphibians
- 57. The body of the crab is protected by a strong shell. in Bahasa Indonesia shell is...
 - a. Bulu

c. Hibernate

b. Cangkang

- d. Stay
- 58. Fruit in Bahasa Indonesia we call ...
 - a. Buah

- c. Bayam
- b. Sayur-sayuran
- d. Nasi
- 59. What do we call berburu in English
 - a. Hibernate

c. Purr

b. Hunt

d. Catch

- 60. is a wild animals
 - Monkey

c. Fly

b. Cat

d. Snake



what is the name of that animals?

a. Octopus

c. Fox

b. Lobster

d. Crab



62.	Wl	hat is the food of that anim	als?	
	a.	Leaf	c. Pear	nut
	b.	Pumpkin	d. Carr	rot
63.	Ele	ephant has one long nose. 1	ong nos	se Indonesia means
	a.	Mata yang panjang		c. Badan yang panjang
	b.	Rambut yang panjang		d. Hidung yang Panjang
64.		the king of the Forest		
	a.	Ant		c. Cat
	b.	Tiger		d. Frog
65.	Giı	raffe and goat eats		
	a.	Grass		c. Insect
	b.	Water		d. Hone
66.	Th	e helps farmer to plow	the rice	fields
	a.	Sheep		c. Bufallo
	b.	Cow		d. Goat
67.		is a Reptile animal		
	a. I	Eagle		c. Bird
	b. 1	Rooster		d. Snake
68.		is the Omnivor animal		
	a.	Bear		c. Chicken
	b.	Semut		d. Ant
69.	Th	e fly on the sky		
	a.	Birds		c. Chicken
	b.	Buffalo		d. Fish
70.	Th	is animal lives in the sea. I	nas tenta	acles. what animals is this?
	a.	Octopus		c. Duck
	b.	Zebra		d. Owl

71. Elephant is the ... animal

a. Mamalia	c. Bird
b. Herbivore	d. Reptile
72. Lion, tiger, Crocodile and do	g are included in
a. Carnivore	c. Mamalia
b. Reptile	d. Bird
73. Frog is the animal	
a. Amfibi	c. Mamalia
b. Carnivore	d. Omnivore
74. The characteristic of Bungl	on is
 a. Can change body color 	c. Can eat
b. Can swim	d. Can fly
75. Camel in indonesia means	
a. Unta	c. Owl
b. Burung hantu	d. Unggas
76. They are pet animals	
a. Cat, rabbit and lion	c. Cat, rabbit and chicken
b. Fish, Zebra and Tiger	d. Rabbit, ant and frog
77. Chameleon, and snake are in	cluded in
a. Reptile	c. Mamalia
b. Carnivore	d. Omnivore
78. Crocodile has a sharp teeth	and it is very dangerous. the underlined word
in Bahasa Indonesia is	
a. Gigi yang kuat	c. Gigi yang panjang
b. Gigi yang tajam	d. Gigi yang besar
79. What food does camel eat?	
a. Grass	c. Bread
b. Meat	d. Vegetables
80. The cows eat	
a. Bone	c. Birds
b. Grass	d. Fish
81. Which animals can swim?	

	a. Elephant	c. Dolphin
	b. Eagle	d. Tiger
82.	Pigeon in Bahasa Indoneisa is	
	a. Gagak	c. Beo
	b. Merpati	d. Burung gereja
83.	The smallest animal and like sweet for	ood is
	a. Ant	c. Monkey
	b. Elephant	d. Gorilla
84.	Frog and lizard like eat	
	a. Insect	c. Meat
	b. Banana	d. Fruit
85.	Bee has 2 colored stripes(black and	yellow) has 2 wings and small size.
	What is that animal in Bahasa Indone	esia?
	a. Bee	c. Insect
	b. Pigeon	d. Bite
86.	Menggantung in English is	
	a. Hang	c. Purr
	b. Bark	d.Fly
87.	The duck food is	
	a. Grains	c. Insect
	b. Worm	d. Grass
88.	What is the food	of that animals?
00.	a. Insect	c. Kangaroo
	b. Chicken	d. Duck
89	What food does camel likes?	u. Duck
٠,٠	a. Camel likes meat	c. Camel likes Honey
	b. Camel likes Grass	d. Camel likes bee
	C. Cumo muo	C. Culler lines over



00. The characteristic of that animal is...

- a. The heavyest animal
- c. The slim animal
- b. The small animal
- d. The smart animal



91. What is the food of that animals?

a. Banana

c. Vegetable

b. Meat

d. Table



92. What is the food of that animal?

a. Grass

c. Leaves

b. Bamboo

- d. Meat
- 93. What is the Leopard food?
 - a. Meat

c. Noodle

b. Rice

d. Fried Chicken



- 94. What does shark food?
 - a. Fish

c. Insect

b. Noodle

d. Baby



- 95. What is the name of that animal?
 - a. Squid

c. Paper

b. Insect

d. Dolphin

96. The characteristic of cow is can prod	luce
a. Produce milk	c. Produce sauce
b. Produce honey	d. Produce sugar
97. Octopus in indonesia means	
a. Gurita	c. Lalat
b. Laba-laba	d. Semut
98. What is the characteristic of bird?	
a. Has wings	c. can climb
b. Has 4 foot	d. can dancing
99. What is the characterictic of lizard?	
a. Catch insects with the tongue	c. Hung on the wood
b. Jumping on the tree	d. Eat food bu using hand
100. Berimigrasi in English is	
a. Roar	c. Hibernate
b. Migrate	d. Hunt
101. The characteristic of rabbit like carr	ot and
a. Run fast	c. Sad
b. Laugh	d. Fly
102. Dolphin can in the water	
a. Swim	c. Run
b. Jump	d. Climb
103. Look at this anim	al!
it has beautiful	
a. Body	c. Feather
b. Teeth	d. Hair
104. The characteristic of bee is can pr	oduce
a. Produce honey	c. Produce Milk
b. Produce juice	d. Produce Sugar
Porcupine in Bahasa Indonesia is.	

	a. Udang	c. Insect
	b. Landak	d. Fruit
106.	How many legs does bird l	nave?
	a. One	c. three
	b. Two	d. four
107.	The characteristic of chick	en can produce
	a. Produce egg	c. Produce sauce
	 b. Produce bread 	d. Produce chili
108.	A has beautiful wings	
	a. Chicken	c. Kangaroo
	b. Butterfly	d. Ant
109.	is Herbivore animal	
	a. Rabbit	c. Dog
	b. Cat	d. Bear
110.	What is the color of zebra?	
	a. White and Black	c. Red and white
	b. Blue and red	d. Purple and Black
111.	Frog is it can be live or	n land and in water
	a. Aves	c. Amphibians
	b. Mamals	d. Reptile
112.	Catfish in Bahasa Indonesi	a is
	a. Kambing	c. Kucing
	b. Ikan lele	d. Semut
113.	Frog can be live on land a	and in water The underlined words in Bahasa
	Indonesia is	
	a. Dapat hidup di darat d	lan di air
	 b. Dapat hidup di 2 temp 	pat
	c. Dapat hidup di darat s	aja
	d. Semua benar	
114.	What does giraffe food?	
a.	Fruit	c. Insect

	b. Ant	d. Butterfly
115.	A giraffe has a long	
	a. Mouth	c. Ears
	b. Stomach	d. Neck
116.	It is a tame animal. it smart and fu	anny. It lives in the sea or the circus. it
	eats fish. What is the name of that	animals?
	a. Dolphin	c. Bear
	b. Bird	d. Cat
117.	Monkeys like to on trees	
	a. Climb	c. Run
	b. Walk	d. Dance
118.	The lizard like eat insect and can	•••
	a. Can creep	c. Can sing
	b. Can run	d. Can dance
119.	A otter likes	
	a. Carrot	c. Candy
	b. Warm	d. Chili
120.	Weasel in Bahasa Indonesia is	
	a. Spider	c. Cheetah
	b. Musang	d. Crocodile
121.	What is the food of penguin?	
	a. Shrimp	c. Peanut
	b. Insect	d. Rice
122.	Is a strong animal. It help peop	le carry heavy things.
	a. Pig	c. Horse
	b. Goat	d. Sheep
123.	The monkey often eats banana	and peanuts. Banana and peanut in
	Indonesia we call?	
	a. Pisang dan Kacang	c. Buah dan sayur
	b. Kacang dan Buah	d. Apel dan Anggur

124.	Crocodile are the biggest reptiles in the world. The underlined word in
	Bahasa Indonesia is

a. Monkeyb. Buayac. Tigerd. Bear

word in Indonesia means..

125. Bears have thick fur coats to protect them from the cold. The underlined

a. Bulu yang tebal c. Mata yang panjang

b. Kaki yang panjang d. Rambut yang tebal

Appendix 2

KEY ANSWER

1.	A	31. A	61. A	91. A	121. A
2.	D	32. D	62. B	92. A	122. B
3.	A	33. A	63. A	93. D	123. B
4.	A	34. A	64. A	94. B	124. B
5.	C	35. A	65. A	95. A	125. A
6.	В	36. C	66. C	96. A	
7.	A	37. A	67. A	97. A	
8.	A	38. B	68. A	98. A	
9.	A	39. A	69. A	99. C	
10.	В	40. C	70. B	100. A	
11.	В	41. A	71. B	101. A	
12.	D	42. A	72. A	102. B	
13.	A	43. A	73. A	103. A	
14.	A	44. B	74. A	104. A	
15.	A	45. D	75. B	105. B	
16.	A	46. C	76. A	106. D	
17.	A	47. A	77. B	107. A	
18.	A	48. B	78. A	108. A	
19.	A	49. C	79. A	109. A	
20.	D	50. A	80. A	110. A	
21.	A	51. D	81. A	111. C	
22.	В	52. C	82. A	112. B	
23.	В	53. B	83. B	113. A	
24.	В	54. A	84. A	114. A	
25.	В	55. D	85. B	115. D	
26.	В	56. B	86. A	116. A	
27.	A	57. A	87. A	117. A	
28.	В	58. D	88. A	118. A	
29.	В	59. A	89. A	119. B	
30.	В	60. A	90. A	120. B	

Appen QUESTIONNAIRE RESULT VALIDITY OF TEST

			20 0	8 8	a	20 N	a 0	5 8	a	20 0			20 0		a		a	20 %	a	20 0		8	20 0		200 0	5				500 10	II	EM	<u> </u>
N O	RESP ONDE N	1	2	3	4	5	6	7	8	9	10	11	12	13	1 4	15	16	1 7	18	19	20	21	22	23	2 4	25	26	27	28	2 9	30	31	32
1	AML AMND	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1
2	ARIEF LEO	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1
3	ASNI	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
4	IRSN W	1	1	0	0	0	0	0	1	1	0	1	1	1	0	1	1	0	1	0	1	1	1	1	1	0	0	0	1	1	1	1	1
5	DEREN ALFIA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1

6	AYU ADHA	1	1	0	0	0	0	0	1	1	0	1	0	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1
7	NAURA J	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1
8	RAJA AZH	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
9	RAMN DA	1	1	0	1	1	1	1	0	0	1	0	0	1	1	1	1	0	0	1	0	1	1	1	0	0	0	0	1	1	0	1	1
1 0	TMI	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1
1 1	SDRMN	1	1	0	1	1	0	0	1	1	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1
1 2		1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1

1 3	WNNDI	0	0	0	0	1	0	0	1	1	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0
1 4	MHD ALWI	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
1 5	DEWI	1	0	0	1	0	0	0	1	1	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1
1 6	YNITA	1	1	0	0	1	1	0	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0	1	1
1 7	RZKI	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1 8	NZWA	1	1	0	0	1	0	0	1	1	0	1	0	1	0	0	1	1	1	0	0	1	0	1	1	0	1	0	1	0	1	0	1
1 9	PADLN	1	1	1	0	1	0	0	1	1	0	1	1	0	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	0	1

2 0	REZA ONGK	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	1	1	0	0	0	1	1	0	0	(
2	ZSKIA	0	1	0	0	1	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0	1	0	1	1	0	0	1	0	1	0	1	(
	N = 21	1 6	18	8	9	1 5	7	4	13	13	6	13	9	16	1 0	13	14	1	10	10	13	18	14	18	1 4	8	12	10	17	1 6	11	8	1
		0, 7 6	0. 85	0. 38	0. 42	0. 7 1	0. 3 3	0. 19	0. 61	0. 61	0. 28	0. 61	0. 42	0. 76	0. 4 7	0. 61	0. 66	0. 5 2	0. 47	0. 47	0. 61	0. 85	0. 66	0. 85	0. 6 6	0. 38	0. 57	0. 47	0. 80	0. 7 6	0. 52	0. 38	07
	p	0.	0.	0.	0.	0.	0.	0.	0.	0.	0	0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0	0.	0.	0.	0.	-
8	q	2	15	62	58	2	6	81	39	39	0. 72	0. 39	58	24	5	39	34	4	53	53	39	15	34	15	3	62	43	0. 53	2	2	48	62	

	4				9	7								3			8							4					4			
	0. 4	0. 4	0. 4	0. 4		0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4	0. 4
r tabel		12 2				32			1.5			1-2 2							1-2 2			3 32										
	0, 6 2	0, 67 1	0, 41 6	0, 35 2	0, 5 1	0, 4 9	0, 38 6	0, 46 2	0, 46 2	0, 45 6	0, 46 2	0, 44 9	0, 37 1	0, 3 1	0, 74 5	0, 53 4	0, 5 3	0, 31 3	0, 44 8	0, 63 5	0, 65 6	0, 49 7	0, 67 1	0, 6 3	0, 29 2	0, 49 9	0, 54 4	0, 59 9	0, 4 7	0, 61 6	0, 47 6	0, 62 1
r hitung				Т			Т						Т	Т				Т	1-2 2			3			Т							

Appendix 4

Calculation of the formulation $r_{pbi=\frac{M_{p-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$

1. Mean score from score total (M_t)

$$M_{t=\frac{X_t}{M}}$$

$$M_{t=\frac{1600}{21}=76.2}$$

2. Standard Deviation (SD_t)

$$SD_{t=\sqrt{\frac{\sum X_{t^2}}{n}-(\frac{\sum X_{t}}{n})^2}}$$

$$SD_{t=\sqrt{\frac{138026}{21}-(\frac{1600}{21})^2}}$$

$$SD_{t=\sqrt{6574.19-5806.44}}$$

$$SD_{t=\sqrt{767.75}=27.7}$$

3. Mean Score

Item 1

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n65}}$$

$$M_{pl=\frac{90+111+81+105+38+102+100+106+79}{19}}$$

$$\mathbf{M}_{pl} = \frac{812}{9} = 90.22$$

$$\mathbf{M}_{pl} = \frac{979}{11} = 89$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n67}}$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+41+92+100+89+105+100+74+106+59+79}{17}}$$

$$\mathbf{M}_{pl} = \frac{1410}{17} = 82.94$$

Item 4

$$\mathbf{M}_{pl=\frac{61+111+81+41+92+100+89+105+102+100+106}{11}}$$

$$\mathbf{M}_{pl} = \frac{988}{11} = 89.82$$

Item 5

$$M_{pl} = \frac{99+61+88+111+35+92+100+89+105+100+74+106+79}{13}$$

$$\mathbf{M}_{pl} = \frac{1139}{13} = 87.61$$

Item 6

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n70}}$$

$$M_{pl=\frac{99+61+111+92+100+102+100+106+59+79}{10}}$$

$$\mathbf{M}_{pl} = \frac{909}{10} = 90.9$$

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n71}}$

 $\mathbf{M}_{pl} = \frac{99+88+111+92+100+89+105+102+40+100}{10}$

$$\mathbf{M}_{pl} = \frac{926}{10} = 92.6$$

Item 8

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+88+81+92+100+89+105+102+100+14+79+106+59+79}{16}}$

$$\mathbf{M}_{pl} = \frac{1344}{16} = 84$$

Item 9

M
pl=
total score of students score that true item answer
n73

 $\mathbf{M}_{pl} = \frac{99+61+90+88+111+81+35+92+100+105+102+100+14+106+79}{15}$

$$\mathbf{M}_{pl} = \frac{1263}{15} = 84.2$$

Item 10

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n74}}$

$$\mathbf{M}_{pl} = \frac{1181}{14} = 84.36$$

Item 11

M
pl=total score of students score that true item answer
n75

$$\mathbf{M}_{pl=\frac{99+90+88+111+81+92=100+89+105+38+40+100+74+106+59}{15}}$$

$$\mathbf{M}_{pl} = \frac{1272}{15} = 84.8$$

$$\mathbf{M}_{pl} \! = \! \! \frac{_{99+61+90+88+111+81+41+92+100+89+105+102+40+106+79}}{_{15}}$$

$$\mathbf{M}_{pl} = \frac{1248}{15} = 85.6$$

Item 13

$$M_{pl} = \frac{99+90+111+81+105+102+40+106+79}{9}$$

$$\mathbf{M}_{pl} = \frac{813}{9} = 90.33$$

Item 14

$$\mathbf{M}_{pl} = \frac{99+88+89+105+102+74+106+59+79}{9}$$

$$\mathbf{M}_{pl=} \frac{801}{9} = 89$$

$$M_{pl=\frac{99+88+111+92+100+106+59+79}{8}}$$

$$\mathbf{M}_{pl} = \frac{734}{9} = 91.75$$

 $\mathbf{M}_{\mathbf{pl} = \underbrace{total\ score\ of\ students\ score\ that\ true\ item\ answer}_{n80}}$

 $M_{pl=\frac{99+61+90+111+81+92+105+106+79}{9}}$

$$\mathbf{M}_{pl} = \frac{824}{9} = 91.55$$

Item 17

M
pl=
total score of students score that true item answer
n81

 $\mathbf{M}_{pl=\frac{99+90+88+111+81+41+92+100+89+105+38+100+74+106+59+79}{16}}$

$$\mathbf{M}_{pl} = \frac{1352}{16} = 84.5$$

Item 18

M
pl=total score of students score that true item answer
n82

 $\mathbf{M}_{pl=\frac{61+88+92+100+89+102+100+106+59+79}{10}}$

$$\mathbf{M}_{pl} = \frac{876}{10} = 87.6$$

Item 19

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n83}}$

 $\mathbf{M}_{pl=\frac{99+90+88+111+81+41+92+100+89+105+102+40+100+14=74+106}{16}}$

$$\mathbf{M}_{pl} = \frac{1332}{16} = 83.25$$

Item 20

M
pl=total score of students score that true item answer
n84

$$\mathbf{M}_{pl=\frac{99+90+88+111+81+92+100+89+105+102+100+74+106+59+79}{15}}$$

$$\mathbf{M}_{pl} = \frac{1375}{15} = 91.67$$

$$\mathbf{M}_{pl} = \frac{1494}{18} = 83$$

Item 22

$$\mathbf{M}_{pl} = \frac{61+88+100+89+105+102+100+74+106+59+79}{11}$$

$$\mathbf{M}_{pl} = \frac{963}{11} = 87.54$$

Item 23

$$M_{pl} = \frac{61+88+111+92+100+102+74+106+59+79}{10}$$

$$\mathbf{M}_{pl} = \frac{872}{10} = 87.2$$

$$\mathbf{M}_{pl} \! = \! \! \frac{_{99+88+111+35+41+92+100+89+105+102+40+100+106+79}}{_{14}}$$

$$\mathbf{M}_{pl} = \frac{1187}{14} = 84.75$$

M
pl=total score of students score that true item answer
n89

 $\mathbf{M}_{pl=\frac{99+90+88+111+81+35+41+92+100+89+105+38+102+100+74+106+79}{17}}$

$$\mathbf{M}_{pl} = \frac{1430}{17} = 84.12$$

Item 26

M
pl=total score of students score that true item answer

 $M_{pl} = \frac{99+61+90+88+111+81+92+100+102+100+14+59}{12}$

$$\mathbf{M}_{pl} = \frac{997}{12} = 83.08$$

Item 27

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+111+81+35+92+100+89+105+102+100+74+106+59+79}{16}}$

$$\mathbf{M}_{pl} = \frac{1383}{16} = 86.44$$

Item 28

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl} = \frac{99 + 90 + 88 + 111 + 81 + 35 + 92 + 100 + 89 + 105 + 38 + 102 + 100 + 14 + 74 + 106 + 59 + 79}{18}$

$$\mathbf{M}_{pl} = \frac{1462}{18} = 81.22$$

Item 29

M
pl=total score of students score that true item answer
n93

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+41+92+100+89+102+100+74+106+59}{16}}$$

$$\mathbf{M}_{pl} = \frac{1328}{16} = 83$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+41+92+100+89+105+38+102+40+100+74+106+59+79}{19}}$$

$$\mathbf{M}_{pl} = \frac{1555}{19} = 81.84$$

Item 31

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+92+100+89+102+40+100+74+106}{15}}$$

$$\mathbf{M}_{pl} = \frac{1268}{15} = 84.53$$

Item32

$$\mathbf{M}_{pl} = \frac{99+61+90+80+111+81+92+89+105+102+40+100+74+106+59+79}{15}$$

$$\mathbf{M}_{pl} = \frac{1288}{15} = 85.87$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n97}}$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+41+92+100+89+105+38+102+100+74+106+59+79}{19}}$$

$$\mathbf{M}_{pl=} \frac{1550}{19} = 81.58$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n98}}$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+35+92+100+89+105+102+40+106+79}{14}}$$

$$\mathbf{M}_{pl} = \frac{1197}{14} = 85.5$$

Item 35

$$\mathbf{M}_{pl} = \frac{99+61+90+88+111+81+41+92+100+89+105+38+102+40+100+74+106+59+79}{19}$$

$$\mathbf{M}_{pl} = \frac{1500}{19} = 78.95$$

Item 36

$$\mathbf{M}_{pl} = \frac{1354}{16} = 84.61$$

Item 37

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+41+92+100+89+105+102+40+106+79}{15}}$$

$$\mathbf{M}_{pl} = \frac{1284}{15} = 85.6$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n102}}$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+41+92+100+89+105+102+40+106+79}{14}}$$

$$\mathbf{M}_{pl} = \frac{1203}{14} = 85.93$$

$$\mathbf{M}_{pl=\frac{99+90+111+81+92+100+89+102+40+100+74+79}{12}}$$

$$\mathbf{M}_{pl} = \frac{1057}{12} = 88.08$$

Item 40

$$M_{pl=\frac{99+61+90+111+81+92+89+100+74+59}{10}}$$

$$\mathbf{M}_{pl} = \frac{856}{10} = 85.6$$

Item 41

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n105}}$$

$$\mathbf{M}_{pl=\frac{90+88+111+81+35+41+92+100+89+105+102+100+106+59+79}{15}}$$

$$\mathbf{M}_{pl} = \frac{1278}{15} = 85.2$$

$$M_{pl=\frac{61+92+100+105+102+106+79}{7}}$$

$$\mathbf{M}_{pl} = \frac{645}{7} = 92.14$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n107}}$$

$$\mathbf{M}_{pl=\frac{90+88+111+92+100+89+105+102+100+74+106+59}{12}}$$

$$\mathbf{M}_{pl} = \frac{1116}{12} = 93$$

Item 44

$$M_{pl=\frac{111+41+105+106+59+79=}{6}}$$

$$\mathbf{M}_{pl} = \frac{501}{6} = 83.5$$

Item 45

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n109}}$$

$$M_{pl=\frac{99+90+88+111+105+74}{6}}$$

$$\mathbf{M}_{pl} = \frac{567}{6} = 94.5$$

Item 46

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n110}}$$

$$\boldsymbol{M}_{pl=\frac{99+61+90+88+111+81+41+92+100+89+105+38+102+40+100+74+106+79}{18}}$$

$$\mathbf{M}_{pl} = \frac{1496}{18} = 83.11$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n111}}$$

$$\mathbf{M}_{pl=\frac{90+111+92+100+105+38+106+79}{8}}$$

$$\mathbf{M}_{pl} = \frac{721}{8} = 90.12$$

$$\mathbf{M}_{pl=\frac{99+90+111+81+105+102+40+106+59+79}{10}}$$

$$\mathbf{M}_{pl} = \frac{872}{10} = 87.2$$

Item 49

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n113}}$$

$$\mathbf{M}_{pl=\frac{61+90+88+111+81+89+105+38+102+100+106}{11}}$$

$$\mathbf{M}_{pl} = \frac{971}{11} = 88.27$$

Item 50

$$\mathbf{M}_{pl=\frac{99+90+111+92+100+89+105+102+40+100+74+106+59}{13}}$$

$$\mathbf{M}_{pl} = \frac{1167}{13} = 89.77$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n115}}$$

$$\mathbf{M}_{pl=\frac{99+90+88+92+100+89+105+38+100+74+106}{11}}$$

$$\mathbf{M}_{pl} = \frac{974}{11} = 88.54$$

$$\mathbf{M}_{pl=\frac{99+61+88+111+92+100+105+102+100+14+106}{11}}$$

$$\mathbf{M}_{pl} = \frac{978}{11} = 88.91$$

Item 53

$$\mathbf{M}_{pl=\frac{99+88+111+92+100+89+105+102+40+100+74+106+59}{13}}$$

$$\mathbf{M}_{pl} = \frac{1165}{13} = 89.61$$

Item 54

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n118}}$$

$$\mathbf{M}_{pl} = \frac{99+90+88+111+41+89+105+102+100+74+106+59}{12}$$

$$\mathbf{M}_{pl} = \frac{1064}{12} = 88.67$$

Item 55

$$\mathbf{M}_{pl} = \frac{1039}{12} = 86.58$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n120}}$$

$$\mathbf{M}_{pl=\frac{99+88+111+92+100+105+102+40+100+74+79}{11}}$$

$$\mathbf{M}_{pl} = \frac{990}{11} = 90$$

$$\mathbf{M}_{pl=\frac{99+61+111+41+92+100+105+38+102+100+74+106+79}{13}}$$

$$\mathbf{M}_{pl} = \frac{1108}{13} = 85.23$$

Item 58

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+41+92+100+89+105+38+102+40+100+74+106+59+79}{19}}$$

$$\mathbf{M}_{pl} = \frac{1500}{19} = 78.95$$

Item 59

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+92+100+89+105+102+40+100+74+106+59}{15}}$$

$$\mathbf{M}_{pl} = \frac{1316}{15} = 87.73$$

$$\mathbf{M}_{pl=} \frac{1048}{12} = 87.33$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n125}}$$

$$M_{pl=\frac{99+90+111+81+92+89+102+40+100+14+74}{11}}$$

$$\mathbf{M}_{pl} = \frac{892}{11} = 81.09$$

Item 62

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n1}}$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+92+100+89+105+102+40+100+74+106}{16}}$$

$$\mathbf{M}_{pl} = \frac{1373}{16} = 85,81$$

Item 63

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n2}}$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+41+92+100+89+105+102+100+74+106+59+79}{18}}$$

$$\mathbf{M}_{pl} = \frac{1512}{18} = 84$$

Item 64

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n3}}$$

$$M_{pl} = \frac{99+90+111+100+105+102+14+106}{8}$$

$$\mathbf{M}_{pl=} \frac{727}{8} = 90.88$$

M pl=\frac{total score of students score that true item answer}{n4}

 $\mathbf{M}_{pl} = \frac{99+90+111+92+89+105+102+40+59}{9}$

$$\mathbf{M}_{pl} = \frac{787}{9} = 87.44$$

Item 66

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+111+35+92+100+89+105+38+102+100+74+106+79}{15}}$

$$\mathbf{M}_{pl} = \frac{1281}{15} = 85.4$$

Item 67

M
pl=total score of students score that true item answer
n6

 $M_{pl=\frac{99+90+111+92+100+100+79}{7}}$

$$\mathbf{M}_{pl} = \frac{671}{7} = 95,86$$

Item 68

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n7}}$

 $M_{pl=\frac{90+111+92+100}{4}}$

$$\mathbf{M}_{pl} = \frac{393}{4} = 98,25$$

Item 69

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students'score\ that\ true\ item\ answer}{n8}}$

 $M_{pl} = \frac{99+90+88+111+81+100+89+105+38+40+100+74+106}{13}$

$$\mathbf{M}_{pl} = \frac{1121}{13} = 86.23$$

M
pl=total score of students score that true item answer
n9

 $\mathbf{M}_{pl=\frac{99+90+88+111+81+100+89+105+38+40+100+74+106}{13}}$

$$\mathbf{M}_{pl=} \frac{1121}{13} = 86.23$$

Item 71

M
pl=total score of students score that true item answer

 $M_{pl=\frac{99+111+92+100+100+79}{6}}$

$$\mathbf{M}_{pl} = \frac{581}{6} = 96.83$$

Item 72

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n11}}$

$$\mathbf{M}_{pl} = \frac{1121}{13} = 86.23$$

Item 73

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n12}}$

 $\mathbf{M}_{pl} = \frac{99+90+88+111+100+105+102+14+106}{9}$

$$\mathbf{M}_{pl} = \frac{815}{9} = 90.55$$

$$\mathbf{M}_{pl} = \frac{99+61+88+111+81+35+92+100+89+105+102+40+100+74+59+79}{16}$$

$$\mathbf{M}_{pl} = \frac{1315}{16} = 82.19$$

$$M_{pl=\frac{99+111+92+100+89+105+102+40+100+14}{10}}$$

$$\mathbf{M}_{pl} = \frac{852}{10} = 85.2$$

Item 76

$$\mathbf{M}_{pl=\frac{99+90+88+111+81+92+100+89+105+38+102+100+106}{13}}$$

$$\mathbf{M}_{pl} = \frac{1201}{13} = 92.38$$

Item 77

$$\mathbf{M}_{pl=\frac{90+88+111+81+35+92+100+89+105+102+40+100+74+106}{14}}$$

$$\mathbf{M}_{pl} = \frac{1213}{14} = 86.64$$

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n17}}$$

$$\mathbf{M}_{pl=\frac{90+111+81+89+105+102+100+74+106+59+79}{11}}$$

$$\mathbf{M}_{pl} = \frac{996}{11} = 90.54$$

M
pl=total score of students score that true item answer
n18

 $\mathbf{M}_{pl=\frac{99+61+90+88+100+105+102+74+59+79}{10}}$

$$\mathbf{M}_{pl} = \frac{857}{10} = 85.7$$

Item 80

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl} = \frac{99+61+92+100+89+105+38+102+100+106}{10}$

$$\mathbf{M}_{pl} = \frac{892}{10} = 89.2$$

Item 81

M
pl=total score of students score that true item answer
n20

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+100+89+105+38+102+100+106}{13}}$

$$\mathbf{M}_{pl} = \frac{1170}{13} = 90$$

Item 82

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n21}}$

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+92+100+89+105+38+102+100+74+106+59+79}{18}}$

$$\mathbf{M}_{pl=} \frac{1509}{18} = 83.83$$

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl} = \frac{99+61+90+88+111+81+41+92+100+89+105+38+102+106}{14}$

$$\mathbf{M}_{pl} = \frac{1203}{14} = 85.93$$

Item 84

M
pl=total score of students score that true item answer
n23

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+41+92+100+89+105+102+100+74+106+59+79}{18}}$

$$\mathbf{M}_{pl} = \frac{1512}{18} = 84$$

Item 85

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n24}}$

 $\mathbf{M}_{pl} = \frac{99+61+90+88+111+81+89+105+102+100+74+106+59+79}{14}$

$$\mathbf{M}_{pl} = \frac{1244}{14} = 88.86$$

Item 86

M
pl=\frac{total score of students score that true item answer}{n25}

 $M_{pl=\frac{90+111+81+89+105+102+100+14}{8}}$

$$\mathbf{M}_{pl} = \frac{692}{8} = 86.5$$

Item 87

M pl=total score of students score that true item answer n26

 $\mathbf{M}_{pl} = \frac{99+61+90+88+111+81+89+105+102+40+100+74+106}{16}$

$$\mathbf{M}_{pl} = \frac{1058}{12} = 88.17$$

M
pl=total score of students score that true item answer
n27

 $\mathbf{M}_{pl=\frac{61+90+111+81+89+105+102+100+106+79}{10}}$

$$\mathbf{M}_{pl} = \frac{924}{18} = 92.4$$

Item 89

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+92+100+89+105+102+40+100+74+106+59}{17}}$

$$\mathbf{M}_{pl} = \frac{1432}{17} = 84.23$$

Item 90

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+41+92+100+89+105+38+100+106+59+79}{16}}$

$$\mathbf{M}_{pl} = \frac{1339}{16} = 83.69$$

Item 91

M
pl=
total score of students score that true item answer
n30

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+100+105+102+74+106}{11}}$

$$\mathbf{M}_{pl} = \frac{1017}{11} = 92.45$$

M
pl=total score of students score that true item answer
n31

 $M_{pl} = \frac{99+90+88+111+92+89+100+79}{8}$

$$\mathbf{M}_{pl} = \frac{748}{8} = 93.5$$

Item 93

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+35+92+100+89+105+102+40+100+74+106}{16}}$

$$\mathbf{M}_{pl} = \frac{1373}{16} = 85.81$$

Item 94

M
pl=total score of students score that true item answer
n33

 $M_{pl} = \frac{99+88+111+100+105+102+100+14+106+59}{10}$

$$\mathbf{M}_{pl} = \frac{884}{10} = 88.4$$

Item 95

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n34}}$

 $M_{pl=\frac{111+92+100+38+102+100+74+106}{8}}$

$$\mathbf{M}_{pl} = \frac{723}{8} = 90.37$$

Item 96

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n35}}$

$$M_{pl} = \frac{99+61+111+35+89+105+102+100+74+106+79}{11}$$

$$\mathbf{M}_{pl} = \frac{961}{11} = 87.36$$

M
pl=total score of students score that true item answer
n36

 $\mathbf{M}_{pl=\frac{99+61+90+88+111+81+41+92+100+105+102+100+74+106+59}{15}}$

$$\mathbf{M}_{pl} = \frac{1309}{15} = 87.27$$

Item 98

M
pl=
total score of students score that true item answer
n37

 $\mathbf{M}_{pl=\frac{99+88+111+41+92+100+89+105+102+100+106+79}{12}}$

$$\mathbf{M}_{pl} = \frac{1112}{12} = 92.67$$

Item 99

M
pl=
total score of students score that true item answer
n38

 $\mathbf{M}_{pl=\frac{99+61+88+111+81+41+92+100+105+102+100+74+106+59}{14}}$

$$\mathbf{M}_{pl} = \frac{1219}{14} = 87.07$$

Item 100

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+90+88+111+81+35+41+92+100+105+102+40+100+74+106+79}{16}}$

$$\mathbf{M}_{pl} = \frac{1343}{16} = 83.94$$

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl} \! = \! \! \frac{99 \! + \! 61 \! + \! 88 \! + \! 111 \! + \! 41 \! + \! 92 \! + \! 100 \! + \! 105 \! + \! 102 \! + \! 100 \! + \! 74 \! + \! 106 \! + \! 59}{13}$

$$\mathbf{M}_{pl} = \frac{1138}{13} = 87.54$$

Item 102

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+88+111+41+92+100+105+102+100+74+106+59}{13}}$

$$\mathbf{M}_{pl} = \frac{1138}{13} = 87.54$$

Item 103

M
pl=total score of students score that true item answer
n42

 $\mathbf{M}_{pl=\frac{99+111+41+105+102+100+106+59+79}{9}}$

$$\mathbf{M}_{pl} = \frac{802}{9} = 89.11$$

Item 104

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n43}}$

 $\mathbf{M}_{pl=\frac{99+90+88+111+81+35+41+92+100+89+105+38+102+100+74+106+59+79}{18}}$

$$\mathbf{M}_{pl=} \frac{1489}{18} = 82.72$$

Item 105

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n44}}$

 $\mathbf{M}_{pl=\frac{99+88+111+81+35+92+100+89+105+102+40+100+106+59+79}{15}}$

$$\mathbf{M}_{pl=} \frac{1286}{15} = 85.73$$

M
pl=
total score of students score that true item answer
n45

 $M_{pl=\frac{61+90+111+81+100+105+102+74+106}{9}}$

$$\mathbf{M}_{pl} = \frac{830}{9} = 92.22$$

Item107

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+80+111+81+35+41+92+100+89+105+38+102+100+106+59+79}{18}}$

$$\mathbf{M}_{pl} = \frac{1476}{18} = 82$$

Item 108

M
pl=total score of students score that true item answer
n47

 $M_{pl} = \frac{99+90+88+111+81+35+92++100+89+105+38+102+100+74+106+79}{16}$

$$\mathbf{M}_{pl} = \frac{1389}{16} = 86.81$$

Item 109

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{61+90+88+111+81+41+92+100+89+38+102+100+74+106+79}{15}}$

$$\mathbf{M}_{pl} = \frac{1252}{15} = 83.47$$

M
pl=total score of students score that true item answer
n49

 $M_{pl} = \frac{88+81+89+105+102+100+74+106+59+79}{10}$

$$\mathbf{M}_{pl} = \frac{883}{10} = 88.3$$

Item 111

M
pl=
total score of students score that true item answer
n50

 $M_{pl=\frac{99+111+106}{3}}$

$$\mathbf{M}_{pl} = \frac{316}{3} = 105.33$$

Item 112

M
pl=
total score of students score that true item answer
n51

 $\mathbf{M}_{pl=\frac{99+90+88+81+41+100+89+105+38+102+100+74+106+79}{14}}$

$$\mathbf{M}_{pl} = \frac{1192}{14} = 85,14$$

Item 113

 $\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n52}}$

 $\mathbf{M}_{pl=\frac{99+61+90+80+111+81+35+41+92+100+89+105+38+102+100+106+59+79}{18}}$

$$\mathbf{M}_{pl} = \frac{1476}{18} = 82$$

Item 114

M
pl=total score of students score that true item answer
n53

 $\mathbf{M}_{pl=\frac{99+88+111+81+35+41+92+100+89+105+38+102+100+59}{14}}$

$$\mathbf{M}_{pl=} \frac{1140}{14} = 81.43$$

M
pl=total score of students score that true item answer
n54

 $\mathbf{M}_{pl=\frac{90+111+81+92+105+102+100+14+59+79}{10}}$

$$\mathbf{M}_{pl} = \frac{833}{10} = 83.3$$

Item 116

M
pl=total score of students score that true item answer

 $\mathbf{M}_{pl=\frac{99+61+90+111+81+92+100+105+106+79}{10}}$

$$\mathbf{M}_{pl} = \frac{924}{10} = 92.4$$

Item 117

M
pl=
total score of students score that true item answer
n56

 $\mathbf{M}_{pl=\frac{61+90+88+111+81+35+92+100+89+105+38+102+100+106+79}{15}}$

$$\mathbf{M}_{pl=} \frac{1277}{15} = 85.13$$

Item 118

M
pl=
total score of students score that true item answer
n57

 $M_{pl=\frac{88+100+105+102+74+106+59+79}{8}}$

$$\mathbf{M}_{pl} = \frac{713}{8} = 89.12$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+41+92+100+89+105+38+102+100+74+106+59+79}{18}}$$

$$\mathbf{M}_{pl} = \frac{1515}{18} = 84.17$$

Item 120

$$\mathbf{M}_{pl=\frac{99+90+88+111+81+35+41+92+100+89+105+102+100+74+106+59+79}{17}}$$

$$\mathbf{M}_{pl} = \frac{1451}{17} = 85.32$$

Item 121

$$\mathbf{M}_{\mathbf{pl} = \frac{total\ score\ of\ students\ score\ that\ true\ item\ answer}{n60}}$$

$$M_{pl=\frac{88+111+92+100+89+105+102+100+74+106+59+79}{12}}$$

$$\mathbf{M}_{pl} = \frac{1105}{12} = 92.08$$

Item 122

$$\mathbf{M}_{pl} \!\!=\!\! \frac{_{99+90+88+111+81+35+41+92+100+89+105+38+102+40+100+74+106+79}}{_{18}}$$

$$\mathbf{M}_{pl} = \frac{1479}{18} = 81.67$$

$$\mathbf{M}_{pl} \! = \! \! \frac{_{99+90+88+111+81+35+100+89+105+102+40+100+74+106}}{_{14}}$$

$$\mathbf{M}_{pl=} \frac{1220}{14} = 87.14$$

$$\mathbf{M}_{pl} = \frac{99+61+88+92+100+89+102+100+106}{9}$$

$$\mathbf{M}_{pl=} \frac{837}{9} = 93$$

$$\mathbf{M}_{pl=\frac{99+61+90+88+111+81+92+100+89+100+74+106+59+79}{14}}$$

$$\mathbf{M}_{pl} = \frac{1229}{14} = 87.78$$

4. Calculating of the Formulation $r_{pbi=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$

Item 1

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{90.22-76.2}{27.7}\sqrt{\frac{0.42}{0.58}}}$$

$$r_{pbi=\frac{14.02}{27.7}\sqrt{0.72}}$$

$$r_{pbi=0.506 \ x \ 0.85=0.430}$$

Item 3

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{82.94-76.2}{27.7}\sqrt{\frac{0.80}{0.2}}}$$

$$r_{pbi=\frac{6.74}{27.7}\sqrt{4}}$$

$$r_{pbi=0.243 \ x \ 2=0.486}$$

Item 5

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{87.61-76.2}{27.7}\sqrt{\frac{0.61}{0.39}}}$$

$$r_{pbi=\frac{11.41}{27.7}\sqrt{1.56}}$$

$$r_{pbi=0.412 x 1.25=0.515}$$

Item 7

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{92.6-76.2}{27.7}\sqrt{\frac{0.47}{0.53}}}$$

Item 2

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{89-76.2}{27.7}\sqrt{\frac{0.52}{0.48}}}$$

$$r_{pbi=\frac{12.8}{27.7}\sqrt{1.08}}$$

$$r_{pbi=0.462 \ x \ 1.04=0.480}$$

Item 4

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{89.82-76.2}{27.7}\sqrt{\frac{0.52}{0.48}}}$$

$$r_{pbi=\frac{13.62}{27.7}\sqrt{1.08}}$$

$$r_{pbi=0.492 \ x \ 1.04=0.512}$$

Item 6

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{90.9-76.2}{27.7}\sqrt{\frac{0.47}{0.53}}}$$

$$r_{pbi=\frac{14.7}{27.7}\sqrt{0.89}}$$

$$r_{pbi=0.530 \ x \ 0.94=0.498}$$

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{84-76.2}{27.7}\sqrt{\frac{0.76}{0.24}}}$$

$$r_{pbi=\frac{16.4}{27.7}\sqrt{0.89}}$$

$$r_{pbi=0.592 \ x \ 0.94=0.556}$$

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{84.2-76.2}{27.7}\sqrt{\frac{0.71}{0.39}}}$$

$$r_{pbi=\frac{8}{27.7}\sqrt{2.45}}$$

$$r_{pbi=0.289 \ x \ 1.56=0.451}$$

Item 11

$$r_{\text{pbi}=\frac{M_{P}-M_{t}}{SD_{t}}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{84.8-76.2}{27.7}\sqrt{\frac{0.71}{0.29}}}$$

$$r_{pbi=\frac{8.6}{27.7}\sqrt{2.45}}$$

$$r_{pbi=0.310 x 1.56=0.484}$$

Item 13

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{90.33-76.2}{27.7}\sqrt{\frac{0.42}{0.58}}}$$

$$r_{pbi=\frac{14.13}{27.7}\sqrt{0.72}}$$

$$r_{pbi=0.510 \ x \ 0.85 \ = 0.433}$$

Item 15

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{91.75-76.2}{27.7}\sqrt{\frac{0.38}{0.62}}}$$

$$r_{pbi=\frac{15.55}{27.7}\sqrt{0.61}}$$

$$r_{pbi=0.561 x 0.78=0.437}$$

$$r_{pbi=\frac{7.8}{27.7}\sqrt{3.16}}$$

$$r_{pbi=0.281 \, x \, 1.78=0.501}$$

Item 10

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{84.36-76.2}{27.7}\sqrt{\frac{0.66}{0.34}}}$$

$$r_{pbi=\frac{8.16}{27.7}\sqrt{1.94}}$$

$$r_{pbi=0.294 \ x \ 1.39=0.411}$$

Item 12

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{85.6-76.2}{27.7}\sqrt{\frac{0.71}{0.29}}}$$

$$r_{pbi=\frac{9.4}{27.7}\sqrt{2.45}}$$

$$r_{pbi=0.339 \ x \ 1.56=0.529}$$

Item 14

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{89-76.2}{27.7}\sqrt{\frac{0.42}{0.58}}}$$

$$r_{pbi=\frac{12.8}{27.7}\sqrt{0.72}}$$

$$r_{pbi=0.462 \times 0.85=0.393}$$

Item 16

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{91.55-76.2}{27.7}\sqrt{\frac{0.42}{0.58}}}$$

$$r_{pbi=\frac{15.35}{27.7}\sqrt{0.72}}$$

$$r_{pbi=0.554 \ x \ 0.85=0.471}$$

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$$r_{pbi=\frac{9.73}{27.7}\sqrt{1.94}}$$

$$r_{pbi=0.351 \, x \, 1.39=0.489}$$

$$r_{pbi=\frac{7.8}{27.7}\sqrt{5.67}}$$

$$r_{pbi=0.281 \ x \ 2.38=0.669}$$

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{88.86-76.2}{27.7}\sqrt{\frac{0.66}{0.34}}}$$

$$r_{pbi=\frac{12.66}{27.7}\sqrt{1.94}}$$

$$r_{pbi=0.457 \ x \ 1.39=0.635}$$

Item 86

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{86.5-76.2}{27.7}\sqrt{\frac{0.38}{0.62}}}$$

$$r_{pbi=\frac{10.3}{27.7}\sqrt{0.61}}$$

$$r_{pbi=0.372 \ x \ 0.78=0.290}$$

Item 87

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{88.17-76.2}{27.7}\sqrt{\frac{0.57}{0.43}}}$$

$$r_{pbi=\frac{11.97}{27.7}\sqrt{1.33}}$$

$$r_{pbi=0.432 x 1.15=0.496}$$

Item 88

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{92.4-76.2}{27.7}\sqrt{\frac{0.47}{0.53}}}$$

$$r_{pbi=\frac{16.2}{27.7}\sqrt{0.89}}$$

$$r_{pbi=0.585 \ x \ 0.94=0.549}$$

Item 89

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{84.23-76.2}{27.7}\sqrt{\frac{0.80}{0.2}}}$$

$$r_{pbi=\frac{8.03}{27.7}\sqrt{0.4}}$$

$$r_{pbi=0.290 \ x \ 2=0.58}$$

Item 90

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{83.69-76.2}{27.7}\sqrt{\frac{0.76}{0.24}}}$$

$$r_{pbi=\frac{7.49}{27.7}\sqrt{3.17}}$$

$$r_{pbi=0.270 \ x \ 1.78=0.480}$$

Item 91

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{92.45-76.2}{27.7}\sqrt{\frac{0.52}{0.48}}}$$

$$r_{pbi=\frac{16.25}{27.7}\sqrt{1.08}}$$

$$r_{pbi=0.587 \ x \ 1.04=0.610}$$

Item 92

$$r_{\text{pbi}=\frac{M_{P-M_t}}{SD_t}\sqrt{\frac{p}{q}}}$$

$$r_{pbi=\frac{93.5-76.2}{27.7}\sqrt{\frac{0.38}{0.62}}}$$

$$r_{pbi=\frac{17.3}{27.7}\sqrt{0.61}}$$

$$r_{pbi=0.624 \ x \ 0.78=0.487}$$

Itam 04

Appendix 5

Table Validity of Pre-Test

NO	\mathbf{M}_{p}	M_{t}	SD_t	P	Q	$\mathbf{r}_{\mathbf{pbi} = \frac{M_{P} - M_{t}}{SD_{t}} \sqrt{\frac{p}{q}}}$	r _t on 5% significant	Interpretation
1	90.22	76.2	27.7	0.42	0.58	0.430	0.396	Valid
2	89	76.2	27.7	0.52	0.48	0.480	0.396	Valid
3	82.94	76.2	27.7	0.80	0.2	0.486	0.396	Valid
4	89.82	76.2	27.7	0.52	0.48	0.512	0.396	Valid
5	87.61	76.2	27.7	0.61	0.39	0.515	0.396	Valid
6	90.9	76.2	27.7	0.47	0.53	0.498	0.396	Valid
7	92.6	76.2	27.7	0.47	0.53	0.556	0.396	Valid
8	84	76.2	27.7	0.76	0.24	0.501	0.396	Valid
9	84.2	76.2	27.7	0.71	0.29	0.431	0.396	Valid
10	84.36	76.2	27.7	0.66	0.34	0.411	0.396	Valid
11	84.8	76.2	27.7	0.71	0.39	0.484	0.396	Valid
12	85.6	76.2	27.7	0.71	0.39	0.529	0.396	Valid
13	90.33	76.2	27.7	0.42	0.58	0.433	0.396	Valid
14	89	76.2	27.7	0.42	0.58	0.393	0.396	Invalid
15	91.75	76.2	27.7	0.38	0.62	0.437	0.396	Valid
16	91.55	76.2	27.7	0.42	0.58	0.471	0.396	Valid
17	84.5	76.2	27.7	0.76	0.24	0.410	0.396	Valid
18	87.6	76.2	27.7	0.47	0.53	0.386	0.396	Invalid
19	83.25	76.2	27.7	0.76	0.24	0.452	0.396	Valid
20	91.67	76.2	27.7	0.71	0.29	0.872	0.396	Valid
21	83	76.2	27.7	0.85	0.1	0.583	0.396	Valid
22	87.54	76.2	27.7	0.52	0.48	0.425	0.396	Valid
23	87.2	76.2	27.7	0.47	0.53	0.373	0.396	Invalid
24	84.75	76.2	27.7	0.66	0.34	0.429	0.396	Valid
25	84.12	76.2	27.7	0.80	0.2	0.572	0.396	Valid
26	83.08	76.2	27.7	0.57	0.43	0.285	0.396	Invalid
27	86.44	76.2	27.7	0.76	0.24	0.659	0.396	Valid
28	81.22	76.2	27.7	0.85	0.15	0.431	0.396	Valid
29	83	76.2	27.7	0.76	0.24	0.436	0.396	Valid
30	81.84	76.2	27.7	0.90	0.1	0.612	0.396	Valid

							20.23	2/2 /22/12
31	84.53	76.2	27.7	0.71	0.29	0.469	0.396	Valid
32	85.87	76.2	27.7	0.71	0.29	0.544	0.396	Valid
33	81.58	76.2	27.7	0.90	0.1	0.582	0.396	Valid
34	85.5	76.2	27.7	0.66	0.3	0.467	0.396	Valid
35	78.95	76.2	27.7	0.90	0.1	0.298	0.396	Invalid
36	84.62	76.2	27.7	0.76	0.24	0.541	0.396	Valid
37	85.6	76.2	27.7	0.71	0.29	0.529	0.396	Valid
38	85.93	76.2	27.7	0.66	0,34	0.488	0.396	Valid
39	88.08	76.2	27.7	0.57	0.43	0.493	0.396	Valid
40	85.6	76.2	27.7	0.47	0.53	0.318	0.396	Invalid
41	85.2	76.2	27.7	0.71	0.29	0.507	0.396	Valid
42	92.14	76.2	27.7	0.33	0.67	0.401	0.396	Valid
43	93	76.2	27.7	0.57	0.43	0.670	0.396	Valid
44	83.5	76.2	27.7	0.28	0.72	0.163	0.396	Invalid
45	94.5	76.2	27.7	0.28	0.72	0.409	0.396	Valid
46	83.11	76.2	27.7	0.85	0.15	0.593	0.396	Valid
47	90.12	76.2	27.7	0.38	0.62	0.391	0.396	Invalid
48	87.2	76.2	27.7	0.47	0.53	0.373	0.396	Invalid
49	88.27	76.2	27.7	0.52	0.48	0.453	0.396	Valid
50	89.77	76.2	27.7	0.61	0.39	0.612	0.396	Valid
51	88.54	76.2	27.7	0.52	0.48	0.463	0.396	Valid
52	88.91	76.2	27.7	0.52	0.48	0.477	0.396	Valid
53	89.61	76.2	27.7	0.61	0.39	0.605	0.396	Valid
54	88.67	76.2	27.7	0.57	0.43	0.517	0.396	Valid
55	86.58	76.2	27.7	0.57	0.43	0.431	0.396	Valid
56	90	76.2	27.7	0.52	0.8	0.518	0.396	Valid
57	85.23	76.2	27.7	0.61	0.39	0.406	0.396	Valid
58	78.95	76.2	27.7	0.90	0.1	0.298	0.396	Invalid
59	87.73	76.2	27.7	0.71	0.29	0.649	0.396	Valid
60	87.33	76.2	27.7	0.57	0.43	0.461	0.396	Valid
61	81.09	76.2	27.7	0.52	0.48	0.183	0.396	Valid
62	85.81	76.2	27.7	0.76	0.24	0.617	0.396	Valid
63	84	76.2	27.7	0.85	0.15	0.669	0.396	Valid
64	90.87	76.2	27.7	0.38	0.62	0.413	0.396	Valid
65	87.44	76.2	27.7	0.42	0.58	0.345	0.396	Invalid
66	85.4	76.2	27.7	0.71	0.29	0.518	0.396	Valid
67	95.86	76.2	27.7	0.33	0.67	0.497	0.396	Valid
68	98.25	76.2	27.7	0.19	0.79	0.382	0.396	Invalid
69	86.23	76.2	27.7	0.61	0.39	0.452	0.396	Valid
70	86.23	76.2	27.7	0.61	0.9	0.452	0.396	Valid
71	96.83	76.2	27.7	0.28	0.72	0.461	0.396	Valid
72	86.83	76.2	27.7	0.61	0.39	0.452	0.396	Valid
73	90.55	76.2	27.7	0.42	0.58	0.440	0.396	Valid
74	82.19	76.2	27.7	0.76	0.24	0.384	0.396	Invalid
	20.			500	22	92 N	Α.	8

	0-0			0.4=	0.50	0.005	0.00	
75	85.2	76.2	27.7	0.47	0.53	0.305	0.396	Invalid
76	92.38	76.2	27.7	0.61	0.39	0.73	0.396	Valid
77	86.64	76.2	27.7	0.66	0.24	0.524	0.396	Valid
78	90.54	76.2	27.7	0.52	0.48	0.539	0.396	Valid
79	85.7	76.2	27.7	0.47	0.53	0.322	0.396	Invalid
80	89.2	76.2	27.7	0.47	0.53	0.440	0.396	Valid
81	90	76.2	27.7	0.61	0,39	0.622	0.396	Valid
82	83.83	76.2	27.7	0.85	0.15	0.654	0.396	Valid
83	85.93	76.2	27.7	0.66	0.34	0.489	0.396	Valid
84	84	76.2	27.7	0.85	0.15	0.669	0.396	Valid
85	88.86	76.2	27.7	0.66	0.34	0.635	0.396	Valid
86	86.5	76.2	27.7	0.38	0.62	0.290	0.396	Invalid
87	88.17	76.2	27.7	0.57	0.43	0.496	0.396	Valid
88	92.4	76.2	27.7	0.47	0.53	0.549	0.396	Valid
89	84.23	76.2	27.7	0.80	0.2	0.58	0.396	Valid
90	83.69	76.2	27.7	0.76	0.24	0.480	0.396	Valid
91	92.45	76.2	27.7	0.52	0.48	0.610	0.396	Valid
92	93.5	76.2	27.7	0.38	0.62	0.487	0.396	Valid
93	85.81	76.2	27.7	0.76	0.24	0.618	0.396	Valid
94	88.4	76.2	27.7	0.47	0.53	0.414	0.396	Valid
95	90.37	76.2	27.7	0.38	0.62	0.399	0.396	Valid
96	87.36	76.2	27.7	0.52	0.48	0.419	0.396	Valid
97	87.27	76.2	27.7	0.71	0.29	0.530	0.396	Valid
98	92.67	76.2	27.7	0.57	0.42	0.683	0.396	Valid
99	87.07	76.2	27.7	0.66	0.34	0.544	0.396	Valid
100	83.94	76.2	27.7	0.76	0.24	0.499	0.396	Valid
101	87.54	76.2	27.7	0.61	0.39	0.512	0.396	Valid
102	87.54	76.2	27.7	0.61	0.39	0.512	0.396	Valid
103	89.11	76.2	27.7	0.42	0.58	0.397	0.396	Valid
104	82.72	76.2	27.7	0.85	0.15	0.560	0.396	Valid
105	85.73	76.2	27.7	0.71	0.29	0.537	0.396	Valid
106	92.22	76.2	27.7	0.42	0.58	0.492	0.396	Valid
107	82	76.2	27.7	0.85	0.15	0.450	0.396	Valid
108	86.81	76.2	27.7	0.76	0.24	0.682	0.396	Valid
109	83.47	76.2	27.7	0.71	0.29	0.419	0.396	Valid
110	88.3	76.2	27.7	0.47	0.53	0.411	0.396	Valid
111	105.33	76.2	27.7	0.14	0.86	0.420	0.396	Valid
112	85.14	76.2	27.7	0.66	0.34	0.449	0.396	Valid
113	82	76.2	27.7	0.85	0.15	0.450	0.396	Valid

114	81.43	76.2	27.7	0.66	0.34	0.263	0.396	Invalid
115	83.3	76.2	27.7	0.47	0.53	0.241	0.396	Invalid
116	92.4	76.2	27.7	0.47	0.53	0.550	0.396	Valid
117	85.13	76.2	27.7	0.71	0.29	0.502	0.396	Valid
118	89.12	76.2	27.7	0.38	0.62	0.364	0.396	Invalid
119	84.17	76.2	27.7	0.85	0.15	0.685	0.396	Valid
120	85.32	76.2	27.7	0.80	0.2	0.66	0.396	Valid
121	92.08	76.2	27.7	0.57	0.43	0.659	0.396	Valid
122	81.67	76.2	27.7	0.85	0.15	0.476	0.396	Valid
123	87.14	76.2	27.7	0.66	0.34	0.550	0.396	Valid
124	93	76.2	27.7	0.42	0.58	0.518	0.396	Valid
125	87.78	76.2	27.7	0.66	0.34	0.581	0.396	Valid

From the table above, it can be seen that 18 items was invalid and 107 items was valid. So, the researcher took 100 items for Vocabulary test.

Appendix 6

b. Snail

Vocabulary Test

				Na	ame	:	
In	cten	ction	•	Ro	oom	:	
1111							
	6. 7.	Write your name and your room on the top right. Read question carefully before you answer. Choose one the best answer. Pray before doing the test!					
В.	Ans	wer tl	he question bellow by gi	ving cross (X) in t	he co	orrect answer!	
	1.	Whic	ch animals can fly				
		a. F	lamingo	c. Cheetah			
		b. L	izard	d. Eangle			
	2.	What	t is the food of dolphin?				
		a. F	ish	c. Snail			
		b. In	nsect	d. Octopus			
	3.	Anin	nals that used their long	runks to put food	and v	water in their mounths is	
		a.		c.			
		b.		d.			
	4.	Beetl	le are an insect that live	anywhere from 2 of	days	to as long as 11 months. He has small	
		body	and can flying. The und	erlined word in B	ahasa	Indonesia is	
		a. K	Kupu-kupu	c. Burung gagak			
		b. S	erangga	d. Kumbang			
	5.		The picture be	hind in English is.			
		a. T	urtle	c. Flamingo			

d. Snake

6.	Gra	ass is the favorite food of o	leer. Grass in Bahasa Indonesia is
	a.	Wortel	c. Rumput
	b.	Kacang	d. Sayur
7.	An	ts are small insects. Some	ants have a stinger. stinger in Bahasa Indonesia is
	c.	Alat penyengat	c. Alat merobek
	d.	Alat penghisap	d. Alat mandi
8.	Ca	t is a animal	
	a.	Tame	c. Dangerous
	b.	Wild	d. Cattle
9.	Wł	nat do you call cockroach i	n Bahasa Indonesia
	c.	Badak Jawa	c. Jerapah
	d.	Kecoa	d. Zebra
10.	Ral	bbit have a <u>long ears</u> , whi	ch can be more than 10 cm. The underlined word in Bahas
	Ind	lonesia is	
	a.	Telinga yang panjang	c. Pendengaran yang jelas
	b.	Hidung yang pese	d. Pendengaran yang tajam
11.	Wł	nat we call Dragonfly in Ba	ahasa Indonesia?
	c.	Gorilla	c. Kumbang
	d.	Capung	d. Cicak
12.	*	The name of an	imals behind is
	c.	Ant	c. Turtle
	d.	Dog	d. Snail
13.	Wł	nat is the food of owls?	
	a.	Mouse	c. Insect
	b.	Meat	d. Fish
14.	Be	ar is a wild animal. The un	derlined word in Bahasa Indonesia is
	c.	Beruang	c. Macan tutul
	d.	Katak	d. Gorilla
15.	Ra	bbit has foot	
	a.	2 foot	c. 6 Foot

	b.	4 foot	d. 8 foot
16.	Bo	ne in Bahasa Indonesia is	
	c.	Daging	c. Bangkai
	d.	Tulang	d. Kulit
17.	Ele	phants eat grass, fruit and branche	es. The underlined word in Bahasa Indonesia is
	c.	Ranting, rumput dan sayur	c. Tangkai, buah dan tomat
	d.	Rumput,buah dan ranting	d. Dedaunan
18.	Bir	d have feather, wings and	
	a.	Trunk	c. Teeth
	b.	Jaw	d. Beak
19	The	e picture behind in English is	
		Meat	c. Honey
		Vegetable	d. Fish
		guin in English is	G. 1 1511
-0.	a.	Penguin	c. Snake
		Camel	d. Carrot
21.		at is the characteristic of rabbit?	
	c.	Can run	c. Can jump
	d.	Can fly	d. Can creep
22.		nat food does tiger like?	
	a.	Tiger like meat	c. Tiger like Honey
	b.	Tiger like Vegetable	d. Tiger like bee
23.		The characteristic of tha	t animal is
	a.	The heavyest animal	c. The slim animal
	b.	The small animal	d. The smart animal

24. Wha	at is the food of that animal
a. Grass	c. Leaves
b. Bamboo	d. Meat
25. The characteristic of cow is c	an produce
c. Produce milk	c. Produce sauce
d. Produce honey	d. Produce sugar
26. How many legs does bird hav	ve?
a. One	c. three
b. Two	d. four
27. A has beautiful wings	
a. Chicken	c. Kangaroo
b. Butterfly	d. Ant
28. The characteristic of chicken	can produce
a. Produce egg	c. Produce sauce
b. Produce bread	d. Produce chili
29 is Herbivore animal	
a. Rabbit	c. Dog
b. Cat	d. Bear
30. What does giraffe food?	
a. Fruit	c. Insect
b. Ant	d. Butterfly
31. Octopus in indonesia means	
a. Gurita	c. Lalat
b. Laba-laba	d. Semut
32. What is the characteristic of b	oird?
c. Has wings	c. can climb
d. Has 4 foot	d. can dancing
33. Frog is it can be live on la	and and in water

34. W	34. What is the color of zebra?					
a	. W	hite and Black		c. Red and white		
b.	Bl	ue and red		d. Purple and Black		
35. Th	ne mo	onkey often eats banan	a and pe	eanuts. Banana and peanut in Indonesia we call?		
a	. Pis	sang dan Kacang		c. Buah dan sayur		
b	. Ka	cang dan Buah		d. Apel dan Anggur		
36.	at 12)	What is	the food	l of that animals		
	a.	Grass	ļ	c. Vegetable		
	b.	Meat		d. Table		
37. Ar	nima	ls has long body, not h	ave foot	and lives in forest and dangerous is		
	a.			c.		
	b.			d.		
38	is	a herbivors				
	a.	Giraffe	c. Tiger			
	b.	Watermelon	d. Bear			
39. Merayap in English						
	c.	Run		c. Roar		
	d.	Нор		d. Creep		
40.						

c. Juice

c. Amphibians

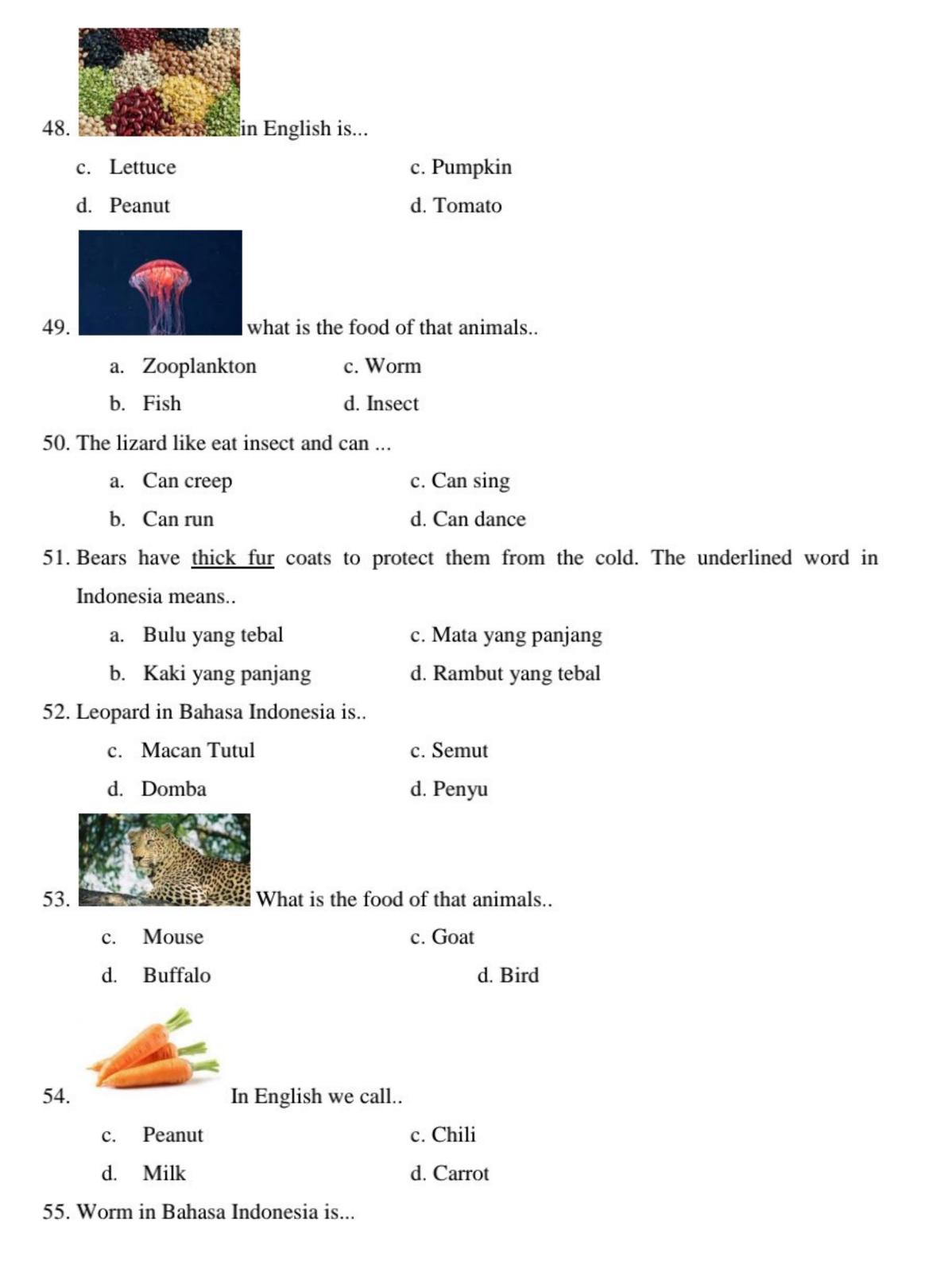
d. Reptile

a. Aves

a. Shrimp

b. Mamals

	b. Wa	ter	d. Grape				
41.	Giraffe	e has two small horns on it is h	nead. The underlined words in Bahasa Indonesia is				
	a.	a. Memiliki 2 tanduk kecil di kepala nya					
	b.	Memiliki 3 tanduk kecil di kepala nya					
	c.	Memiliki 2 tanduk panjang d	i kepala nya				
	d.	Memiliki 2 tanduk kecil di hi	idung nya				
42.	What i	is the characteristic of rabbit?					
	a.	Can run	c. Can jump				
	e.	Can fly	d. Can creep				
43.	is a	wild animals					
	a.	Monkey	c. Fly				
	b.	Cat	d. Snake				
44.	Fox is	an					
	a.	Mamals	c. Omnivore				
	b.	Reptile	d. Amphibians				
45.		The food of cral	o is a <u>small fish, alga, worm and mushrooms</u> . The				
	underl	ined word in Bahasa Indonesia	a is				
	a. Ik	an, alga, cacing, jamur					
	b. Ik	an kecil, cacing, jamur					
	c. Ik	an, cacing, jamur					
	d. Ik	an kecil, ganggang, cacing dar	n jamur				
46.	The bo	ody of the crab is protected by	a strong shell.inBahasa Indonesia shell is				
	a.	Bulu	c. Hibernate				
	b.	Cangkang	d. Stay				
47.		what is the nam	e of that animals?				
	a. O	ctopus	c. Fox				
	b. Lo	obster	d. Crab				



c.	Daging	c. Kacang
d.	Cacing	d. Serangga
56. Cat lik	es eating fish and special snac	ks for cats. Fish in Bahasa Indonesia is
c.	Ikan hiu	c. Tuna
d.	Ikan	d. Tulang
57.	What is the f	ood of animals behind is
a.	Banana	c. Duku
b.	Watermelon	d. Peanut
58. The ch	aracteristic of kangaroo is has	pocket. in Bahasa Indonesia pocket means
c.	Bulu	c. Uang
d.	Sayap	d. Kantong
59. Menga	num in English is	
c.	Migrate	c. Roar
d.	Rove	d. Slither
60. What	do we call mencakar in English	n
c.	Hibernate	c. Purr
d.	Scratch	d. Catch
61. What i	is the characteristic of rabbit?	
	a. Can run	c. Can jump
	b. Can fly	d. Can creep
62.	What is the name of the	at animals
c.	Koala	c. Orangutan
d.	Monkey	d. Roar



- 63. What is the food of that animals?
 - a. Leaf

c. Peanut

b. Pumpkin

d. Carrot



- 64. What does shark food?
 - a. Fish

c. Insect

b. Noodle

d. Baby



- 65. What is the name of that animal?
 - a. Squid

c. Paper

b. Insect

- d. Dolphin
- 66. Elephant is the ... animal
 - a. Mamalia

c. Bird

b. Herbivore

- d. Reptile
- 67. Lion, tiger, Crocodile and dog are included in..
 - a. Carnivore

c. Mamalia

b. Reptile

- d. Bird
- 68. Frog is the ... animal
 - a. Amfibi

c. Mamalia

b. Carnivore

- d. Omnivore
- 69. Camel in Bahasa indonesia is...
 - a. Unta

- c. Owl
- b. Burung hantu
- d. Unggas
- 70. They are pet animals...
 - a. Cat, rabbit and lion
- c. Cat, rabbit and chicken
- b. Fish, Zebra and Tiger
- d. Rabbit, ant and frog

71. Cl	hameleon, and snake are included	in
	a. Reptile	c. Mamalia
	b. Carnivore	d. Omnivore
72. W	hich animals can swim?	
	a. Elephant	c. Dolphin
	b. Eagle	d. Tiger
73. El	lephant, goat and horse eat	
	a. Grass	c. Water
	b. Bread	d. Apple
74. M	lenggantung in English is	
c.	Hang	c. Purr
d.	Bark	d.Fly
75. W	hat is the characterictic of lizard?	
C	c. Catch insects with the tongue	c. Hung on the wood
C	d. Jumping on the tree	d. Eat food bu using hand
76. Pi	geon in Bahasa Indoneisa is	
c.	Gagak	c. Beo
d.	Merpati	d. Burung gereja
77	the king of the Forest	
a.	Ant	c. Cat
b.	Tiger	d. Frog
78. Tl	he helps farmer to plow the rice	e fields
a.	Sheep	c. Bufallo
b.	Cow	d. Goat
79. El	ephant has one long nose. long no	se Indonesia means
c.	Mata yang panjang	c. Badan yang panjang
d.	Rambut yang panjang	d. Hidung yang Panjang
80. Cı	rocodile has a sharp teeth and it	is very dangerous, the underlined word in Bahasa
In	donesia is	
	 a. Gigi yang kuat 	c. Gigi yang panjang
	 b. Gigi yang tajam 	d. Gigi yang besar

a.	Spider	c. Cheetah
b.	Musang	d. Crocodile
82. Fruit i	n Bahasa Indonesia we	call
a.	Buah	c. Bayam
b.	Sayur-sayuran	d. Nasi
83. A otte	r likes	
a.	Carrot	c. Candy
b.	Warm	d. Chili
84. It is a	tame animal. it smart a	nd funny. It lives in the sea or the circus. it eats fish. What is
the na	me of that animals?	
a.	Dolphin	c. Bear
b.	Bird	d. Cat
85. Monke	eys like to on trees	
a.	Climb	c. Run
b.	Walk	d. Dance
86. Frog <u>c</u>	an be live on land and i	n water The underlined words in Bahasa Indonesia is
a.	Dapat hidup di darat d	an di air
b.	Dapat hidup di 2 temp	at
c.	Dapat hidup di darat s	aja
d.	Semua benar	
87. Catfisl	n in Bahasa Indonesia i	S
c.	Kambing	c. Kucing
d.	Ikan lele	d. Semut
88. Porcuj	oine in Bahasa Indonesi	a is
a.	Udang	c. Insect
b.	Landak	d. Fruit
89.	Look at the	is animal!

81. Weasel in Bahasa Indonesia is...

it has beautiful..

c. Body	c. Feather
d. Teeth	d. Hair
90. The characteristic of rabbit like carre	ot and
a. Run fast	c. Sad
b. Laugh	d. Fly
91. What food does camel likes?	
 a. Camel likes meat 	c. Camel likes Honey
 b. Camel likes Grass 	d. Camel likes bee
92. What does grain means in Bahasa Ir	ndonesia
c. Biji-bijian	c. Buah-buahan
d. Daging	d. Sayuran
93. Plant in Indonesia is	
c. Daun	c. Ranting
d. Tumbuhan	d. Pohon
94. Monkey likes banana. In Indonesia l	banana means
c. Kurma	c. Anggur
d. Pisang	d. Pepaya
95. The duck food is	
a. Grains	c. Insect
b. Worm	d. Grass
96. What is the meaning of peanut in Ba	ahasa Indonesia?
c. Kacang	c. Cabai
d. Jagung	d. Kelapa
97. The smallest animal and like sweet i	food is
a. Ant	c. Monkey
b. Elephant	d. Gorilla
98. Frog and lizard like eat	
a. Insect	c. Meat
b. Banana	d. Fruit
99. Bee has 2 colored stripes(black an	d yellow) has 2 wings and small size. What is that
animal in Bahasa Indonesia?	

c. Bee

c. Insect

d. Pigeon

d. Bite



100. What is the food of that animals?

a. Insect

c. Kangaroo

b. Chicken

d. Duck

Padangsidimpuan, 8 Desember 2020

Validator

Rosmawar S.Pd

NIP. 19730202 200502 2 001

Appendix 7

KEY ANSWER

i.	D	21.C	41. A	61. C	81. B
ii.	Α	22. A	42. C	62. A	82. A
iii.	Α	23. A	43. D	63. A	83. B
iv.	D	24. B	44. C	64. A	84. A
v.	Α	25. A	45. D	65. D	85. A
vi.	C	26. B	46. B	66. B	86. A
vii.	Α	27. B	47. B	67. A	87. B

viii	. A	28. A		48. B	68. A	88. B
ix	. В	29. A		49. A	69. A	89. C
X.	A	30. A	50. A	70. C	90. A	
xi.	В	31. A	51. A	71. A	91. B	
xii.	D	32. A	52. A	72. C	92. B	
xiii.	A	33. C	53. A	73. A	93. B	
xiv.	A	34. A	54. D	74. A	94. B	
XV.	A	35. A	55. B	75. A	95. B	
xvi.	В	36. B	56. B	76. B	96. A	
xvii.	В	37. A	57. A	77. B	97. A	
xviii.	D	38. A	58. D	78. C	98. A	
xix.	A	39. D	59. C	79. D	99. A	
XX.	A	40. A	60. D	80. B	100. A	

APPENDIX 8

Speaking Test

Instruction:

Look at the picture bellow:

- 1. Choose one of the topics bellow.
- 2. Please, describe one animals.
- 3. Practice/ present in front of your class one by one in 3 minutes from every students.

B. Topics:

a. Elephant



c. Tiger



b. Crocodile



d. Monkey



Dipindai dengan CamScanner

Padangsidimpuan, 8 Desember 2020 Validator
Rosmawar S.Pd NIP. 19730202 200502 2 001

Appendix 10

Questionnaire Result of Speaking Mastery

No	Initial	Pronounciation	Intonation	Fluency	Accuracy	Score
1	Aul P	3	3	3	4	13/20x100= 65
2	Ans M	3	3	3	3	12/20x100= 60
3	Ajen D	3	3	4	3	13/20x100= 65
4	Aml S H	3	3	3	3	12/20x100= 60
5	Far F	4	4	4	4	16/20x100 = 80
6	Fir S T	4	3	3	4	14/20x100 = 70
7	Hik A L	4	4	3	3	14/20x100 = 70
8	Rid G	3	3	4	4	14/20x100= 70
9	Ren M	4	4	4	4	16/20x100= 80
10	Riz F L	4	4	4	3	15/20x100= 75
11	Rek S H	3	3	4	3	13/20x100= 65
12	Riz F N	4	3	3	4	14/20x100= 70
13	Nur S	4	3	3	3	13/20x100= 65
14	Nur H D	4	4	4	3	15/20x100= 75
15	Nir S H	4	4	3	3	14/20x100= 70
16	Nin T S	4	4	3	3	14/20x100 = 70
17	M. FS	4	4	4	3	15/20x100 = 75
18	МН	3	4	4	3	14/20x100= 70
19	Syla M B	4	4	4	3	15/20x100=75
20	Mif A W	4	3	3	3	13/20x100= 65
21	Sur N	3	4	4	4	14/20x100= 70
22	W A	3	3	3	4	13/20x100= 65

APPENDIX 11

THE RESULT OF STUDENTS VOCABULARY MASTERY

No	Name	Students Score			
1	AP	65			
2	AM	65			
3	AND	68			
4	ASH	73			
5	FF	84			
6	FSL	75			
7	HAL	72			
8	RG	70			
9	RM	80			
10	RFL	74			
11	RSH	69			
12	RFN	73			
13	NS	77			
14	NHD	77			
15	NSH	69			
16	NTS	76			
17	MFS	73			
18	MH	69			
19	SMB	73			
20	MAW	65			
21	SN	74			
22	WA	75			
	Total	1596			

APPENDIX12

THE RESULT OF STUDENTS SPEAKING MASTERY

No	Name	Students Score
1	AP	65
2	AM	60
3	AND	65
4	ASH	60
5	FF	80
6	FSL	70
7	HAL	70
8	RG	70
9	RM	80
10	RFL	75
11	RSH	65
12	RFN	70
13	NS	65
14	NHD	75
15	NSH	70
16	NTS	70
17	MFS	75
18	MH	70
19	SMB	75
20	MAW	65
21	SN	70
22	WA	65
	Total	1530

VARIABLE X

(VOCABULARY MASTERY)

 Maximal and minimum core were gotten by setting the variable score from low score to high score.

65	65	68	69	69
69	70	72	73	73
73	73	74	75	75
76	74	77	77	80
81	84			

- 2. High score = 84
- 3. Low score = 65
- 4. Range

$$R = High score - low score$$

$$= 84-65$$

5. The total of the class (BK) =
$$1 + 3.3 \log n$$

= $1 + 3.3 \log (22)$
= $1 + 3.3 \cdot 1.342$
= $1 + 4.42$
= 5.42

= 5

6. Interval class (i)

$$I = \frac{range}{many\ class} = \frac{19}{5} = 3,8$$

$$I = 4$$

In this research the researcher use 4 as interval class.

7. Mean score

No	Class Interval	F	X	FX	$\mathbf{F_{kb}}$	$\mathbf{F}_{\mathbf{ka}}$
1	65 – 68	3	66.5	199,5	22= N	3
2	69 - 72	6	70,5	423	19	9
3	73 - 76	8	74,5	596	13	17
4	77 - 80	3	78,5	235,5	5	20
5	81- 84	2	82,5	165	2	22=N
	Total	22		1,619		

Mean (X) =
$$\frac{FX}{X}$$

= $\frac{1,619}{22}$ = 73,60

8. Median score

No	Class Interval	F	X	FX	$\mathbf{F}_{\mathbf{k}\mathbf{b}}$	$\mathbf{F}_{\mathbf{ka}}$
1	65 – 68	3	66.5	199,5	22= N	3
2	69 - 72	6	70,5	423	19	9
3	73 - 76	8	74,5	596	13	17
4	77 - 80	3	78,5	235,5	5	20
5	81- 84	2	82,5	165	2	22=N
	Total		22	1619		

Me = b + p
$$(\frac{\frac{1}{2}n-F}{f})$$

= 72,5 + 4 $(\frac{\frac{1}{2}22-9}{8})$
= 72,5 + 4 $(\frac{2}{8})$
= 72,5 + 4 $(0,25)$
= 72,5 + 1

9. Modus

No	Class Interval	F	X	FX	$\mathbf{F}_{\mathbf{k}\mathbf{b}}$	$\mathbf{F}_{\mathbf{ka}}$
1	65 – 68	3	66.5	199,5	22= N	3
2	69 - 72	6	70,5	423	19	9
3	73 - 76	8	74,5	596	13	17
4	77 - 80	3	78,5	235,5	5	20
5	81-84	2	82,5	165	2	22=N
	Total	22		1619		

Mo = b+ p
$$(\frac{b1}{b1+b2})$$

= 72,5 + 4 $(\frac{3}{3+6})$
= 72,5 + 4 $(\frac{3}{9})$
= 72,5 + 4 $(0,33)$
= 72,5 + 1,32
= 73,82

VARIABEL Y

(SPEAKING MASTERY)

 Maximal and minimum core were gotten by setting the variabel score from low score to high score.

60	60	65	65	65
65	65	65	70	70
70	70	70	70	70
70	75	75	75	75
80	80		200	

- 2. High score = 80
- 3. Low score = 60
- 4. Range = high score low score = 80 - 60

= 20

5. The total of the class $BK = 1 + 3.3 \log n$

$$= 1 + 3,3 \log 22$$

$$= 1 + 3,3 . 1,342$$

$$= 1 + 4,4286$$

$$=5,4286$$

6. Interval (i)

$$I = \frac{range}{many\ class}$$

$$=\frac{20}{5}=4$$

7. Mean score

No	Class interval	F	X	Fx	$\mathbf{F_{kb}}$	$\mathbf{F}_{\mathbf{ka}}$
1	60 - 63	2	61,5	123	22= N	2
2	64 - 67	6	65,5	393	20	8
3	68 - 72	8	70,5	564	14	16
4	73 - 76	4	74,5	298	6	20
5	77 - 80	2	78,5	157	2	22=N
	Total	22		1535		

Mean (x) =
$$\frac{Fx}{F}$$

= $\frac{1535}{22}$ = 69,77

8. Median

No	Class interval	F	X	Fx	$\mathbf{F_{kb}}$	$\mathbf{F}_{\mathbf{ka}}$
1	60 - 63	2	61,5	123	22= N	2
2	64 - 67	6	65,5	393	20	8
3	68 - 72	8	70,5	564	14	16
4	73 - 76	4	74,5	298	6	20
5	77 - 80	2	78,5	157	2	22=N
	Total	22		1535		

Me = b + p
$$(\frac{\frac{1}{2}n-F}{f})$$

= 68,5 + 4 $(\frac{\frac{1}{2}22-8}{8})$
= 68,5 + 4 $(\frac{3}{8})$
= 68.5 + 4 $(0,375)$
= 68.5 + 1,5

9. Modus

No	Class interval	F	X	Fx	$\mathbf{F_{kb}}$	$\mathbf{F}_{\mathbf{ka}}$
1	60 - 63	2	61,5	123	22= N	2
2	64 - 67	6	65,5	393	20	8
3	68 - 72	8	70,5	564	14	16
4	73 - 76	4	74,5	298	6	20
5	77 - 80	2	78,5	157	2	22=N
	Total	22		1414.5		

Mo = b + p
$$(\frac{b1}{b1+b2})$$

= 69.5 + 4 $(\frac{4}{4+6})$
= 69.5 + 4 $(\frac{4}{10})$
= 69.5 + 4 $(0,4)$
= 71,5

NORMALITY TEST

RESULT OF NORMALITY DATA X

NO	Class Interval	F	Xi	Fixi	Xi ²	Fixi ²
1	65 - 68	3	66.5	199,5	4422	13.266
2	69 - 72	6	70,5	432	4970	29.82
3	73 - 76	8	74,5	596	5550	44,4
4	77 - 80	3	78,5	235,5	6162	18.486
5	81- 84	2	82,5	165	6806	13.612
ia)	Total	22		1619		119.584

$$\mathbf{SD_t}: \mathbf{I}\sqrt{\frac{fixi^2}{n} - \frac{(fixi)^2}{n}}$$

$$: 4\sqrt{\frac{119584}{22} - \frac{(1619)^2}{22}}$$

$$: 4\sqrt{5435 - 5415}$$

$$: 4\sqrt{20}$$

: 17,88

Table of Normality Data Test with Chi Kuadrat Formula

Interval	Real Upper Limit	Z- score	Limit of large of the area	Large of area	Fh	Fo	$\frac{(fo - fh)^2}{fh}$
65 – 68	66,5	-0,39	0,1517	0,0842	1,8524	3	0,7109
69 – 72	70,5	-0,17	0,0675		1,0472	6	0,4924
73 – 76	74,5	0,05	0,0199	0,0476	1,903	8	0,50341
77 – 80	78,5	0,27	0,1064	0,0865	1,793	3	0,8125
81 – 84	82,5	0,49	0,1879	0,0815		2	
	i:		1			X^2	2,5499

Based on on the table above, the researcher found that $X^2_{count} = 2,5499$ while $X^2_{table} = 7,815$ (0,05) and 11,341 (0,01). Because $X^2_{count} < X^2_{table}$ (2,5499 < 7,815) with degree of dk = 4-1 = 3 abnd significant level 5% (0,05) distribution of data X (Vocabulary Mastery) is Normal.

RESULT OF NORMALITY DATA Y

NO	Class Interval	F	Xi	Fixi	Xi ²	Fixi ²
1	60 - 64	2	62	124	3844	7688
2	65 - 69	6	67	402	4489	26.934
3	70 - 74	8	72	576	5184	41.472
4	75 - 79	4	77,5	310	6006	24.024
5	80 - 84	2	82	164	6724	13.448
	Total	22		1576		113.566

$$SD_t : I \sqrt{\frac{fixi^2}{n} - \frac{(fixi)^2}{n}}$$

$$: 4\sqrt{\frac{113\,566}{22} - \frac{(1576)^2}{22}}$$

$$: 4\sqrt{5162 - 5130}$$

: 4 √32

: 4 . 5 656

: 22,62

Table of Normality Data Test with Chi Kuadrat Formula

Interval	Real Upper Limit	Z- score	Limit of large of the area	Large of area	Fh	Fo	$\frac{(fo - fh)^2}{fh}$
60 – 64	62	0,34	0,1331	0,0853	1,8766	2	0,0081
65 – 69	67	0,12	0,0478		0,248	6	2,2577
70 – 74	72	0,09	0,0359	0,0119	2,1384	8	1,6067
75 – 79	77,5	0,34	0,1331	0,0972	1,5906	4	3,6496
80 – 84	82	0,54	0,2054	0,0723		2	
	<u>(:</u>	3		1		X^2	6,522

Based on on the table above, the researcher found that $X^2_{count} = 6,522$ while $X^2_{table} = 7,815$ (0,05) and 11,341 (0,01). Because $X^2_{count} < X^2_{table}$ (6,522 < 7,815) with degree of dk = 4-1 = 3 abnd significant level 5% (0,05) distribution of data Y (Speaking Mastery) is Normal.

HOMOGENEITY TEST

$$S = \sqrt{\frac{n \ x^2 - xi}{n \ (n-1)}}$$

Hypotheses:

$$H_{o}: \alpha_1^2 = \alpha_2^2$$

$$H_1: \alpha_1^2 \neq \alpha_2^2$$

A. Variant of Data X

No	Xi	Xi ²
1	65	4225
2	65	4225
3	68	4624
4	73	5329
5	84	7056
6	75	5625
7	72	5184
8	70	4900
9	80	6400
10	74	5476
11	69	4761
12	73	5329
13	77	5929
14	77	5929
15	69	4761
16	76	5776
17	73	5329
18	69	4761
19	73	5329
20	65	4225
21	74	5476
22	75	5625
Total	1596	116274

$$n = 22$$

$$\sum xi^2 = 116274$$

So:

$$S = \sqrt{\frac{n \ x^2 - xi}{n \ (n-1)}}$$

$$= \sqrt{\frac{22.116274 - 1596}{22 \ (22-1)}}$$

$$= \sqrt{\frac{2.556.432}{462}}$$

$$= \sqrt{5.233.402}$$

$$= 72,342$$

B. Variant of Data Y

No	Yi	Yi^2
1	65	4225
2	60	3600
3	65	4225
4	60	3600
5	80	6400
6	70	4900
7	70	4900
8	70	4900
9	80	6400
10	75	5625
11	65	4225
12	70	4900
13	70	4900
14	75	5625
15	65	4225
16	70	4900
17	75	5625
18	70	4900
19	75	5625
20	65	4225
21	70	4900
22	65	4225
Total	1530	107050

$$n = 22$$

$$yi = 1530$$

$$\sum yi^2 = 107050$$

So:

$$S = \sqrt{\frac{n \ x^2 - xi}{n \ (n-1)}}$$

$$= \sqrt{\frac{2355100 - 1530}{22(22-1)}}$$

$$= \sqrt{\frac{2353570}{462}}$$

$$= \sqrt{5094307}$$

$$= 71,374$$

The formula was used to test hypothesis was:

$$F = \frac{the\ biggest\ variant}{the\ smallest\ variant}$$

$$F = \frac{72,386}{71,374}$$

$$F = 1,013$$

After doing the calculation, researcher found that $F_{count} = 1.013$ with α 5% and dk= 20 from the distribution list F, researcher found that $F_{table} = 2,12$ cause $F_{count} < F_{table}$ (1.013 < 2,12). So, there is no difference in variant between the X and Y. It means, that the variable is Homogenous.

THE RESULT OF VARIABLE X AND VARIABLE Y

NO	Initial of Students	Variable X	Variable Y
1	AP	65	65
2	AM	65	60
3	AND	68	65
4	ASH	73	60
5	FF	84	80
6	FSL	75	70
7	HAL	72	70
8	RG	70	70
9	RM	80	80
10	RFL	74	75
11	RSH	69	65
12	RFN	73	70
13	NS	77	70
14	NHD	77	75
15	NSH	69	65
16	NTS	76	70
17	MFS	73	75
18	MH	69	70
19	SMB	73	75
20	MAW	65	65
21	SN	74	70
22	WA	75	65
	TOTAL	1596	1530

TABLE
STATISTICAL ANALYSIS OF DATA

No	Initial of students	Variable X	Variable Y	\mathbf{X}^2	Y ²	XY
1	AP	65	65	4225	4225	4225
2	AM	65	60	4225	3600	3900
3	ADN	68	65	4624	4225	4420
4	ASH	73	60	5329	3600	4380
5	FF	84	80	7056	6400	6720
6	FSL	75	70	5625	4900	5250
7	HAL	72	70	5184	4900	5040
8	RG	70	70	4900	4900	4900
9	RM	80	80	6400	6400	6400
10	RFL	74	75	5476	5625	5550
11	RSH	69	65	4761	4225	4485
12	RFN	73	70	5329	4900	5110
13	NS	77	65	5929	4225	5390
14	NHD	77	75	5929	5625	5775
15	NSH	69	70	4761	4225	4485
16	NTS	76	70	5776	4900	5320
17	MFS	73	75	5329	5625	5475
18	МН	69	70	4761	4900	4830
19	SMB	73	75	5329	5625	5475
20	MAW	65	65	4225	4225	4225

21	SN	74	70	5476	4900	5180
22	WA	75	65	5625	4225	4875
	20	5			$Y^2 =$	
		X =	Y =	$X^2 =$	107050	Xy=
Total		1596	1530	116274		111410

The result was used to calculated the value of correlation between variabel X and Y. This is the calculation of r_{xy} : 0.737

$$r_{xy} = \frac{n \sum xy - (\sum x) (\sum y)}{\sqrt{[n \sum x^2 - (\sum x^2)][n \sum y^2 - (\sum y)^2]}}$$

$$= \frac{22.111410 - (1596) (1530)}{\sqrt{[22.116274 - (1596)^2][22.107050 - (1530)^2]}}$$

$$= \frac{2.451 020 - 2.441 880}{\sqrt{[2.558 028 - 2.547 216][2.355 100 - 2.340 900}}$$

$$= \frac{9.140}{\sqrt{(10.812)(14.200)}}$$

$$= \frac{9.140}{\sqrt{153.530.400}}$$

$$= \frac{9.140}{12.390.738}$$

$$= 0.737$$

NILAI – NILAI DALAM DISTRIBUSI t

α untuk uji dua fihak (two tail test)									
	0,50	0,20 0,10 0,05		0,05	0,02 0,01				
α untuk uji satu fihak (one tail test)									
Dk	0,25	0,10	0,10 0,05 0,025		0,01	0,005			
1	1,000	3,078	6,314	12,706	31,821	63,657			
2	0,816	1,886	2,920	4,303	6,965	9,925			
3	0,765	1,638	2,353	3,182	4,541	5,841			
4	0,741	1,533	2,132	2,776	3,747	4,604			
5	0,727	1,486	2,015	2,571	3,365	4,032			
6	0,718	1,440	1,943	2,447	3,143	3,707			
7	0,711	1,415	1,895	2,365	2,998	3,499			
8	0,706	1,397	1,860	2,306	2,896	0,03			
9	0,703	1,383	1,833	2,262	2,821	3,250			
10	0,700	1,372	1,812	2,228	2,764	3,165			
11	0,697	1,363	1,796	2,201	2,718	3,106			
12	0,695	1,356	1,782	2,178	2,681	3,055			
13	0,692	1,350	1,771	2,160	2,650	3,012			
14	0,691	1,345	1,761	2,145	2,624	2,977			
15	0,690	1,341	1,753	2,132	2,623	2,947			
16	0,689	1,337	1,746	2,120	2,583	2,921			
17	0,688	1,333	1,740	2,110	2,567	2,898			
18	0,688	1,330	1,743	2,101	2,552	2,878			
19	0,687	1,328	1,729	2,093	2,539	2,861			
20	0,687	1,325	1,725	2,086	2,528	2,845			
21	0,686	1,323	1,721	2,080	2,518	2,831			
22	0,686	1,321	1,717	2,074	2,508	2,819			
23	0,685	1,319	1,714	2,069	2,500	2,807			
24	0,685	1,318	1,711	2,064	2,492	2,797			
25	0,684	1,316	1,708	2,060	2,485	2,787			
26	0,684	1,315	1,706	2,056	2,479	2,779			
27	0,684	1,314	1,703	2,052	2,473	2,771			
28	0,683	1,313	1,701	2,048	2,467	2,763			
29	0,683	1,311	1,699	2,045	2,462	2,756			
30	0,683	1,310	1,697	2,042	2,457	2,750			
40	0,681	1,303	1,684	2,021	2,423	2,704			
60	0,679	1,296	1,671	2,000	2,390	2,660			
120	0,677	1,289	1,658	1,980	2,358	2,617			
∞	0,674	1,282	1,645	1,960	2,326	2,576			

NILAI-NILAI r PRODUCT MOMENT

N	Taraf Signif		N	Taraf Signif		N	Taraf Signif			
11	5 %	1 %	11	5 %	1 %		5 %	1 %		
3	0,997	0,999	27	0,381	0,487	55	0,266	0,345		
4	0,950	0,990	28	0,374	0,478	60	0,254	0,330		
5	0,878	0,959	29	0,367	0,470	65	0,244	0,317		
6	0,811	0,917	30	0,361	0,463	70	0,235	0,306		
7	0,754	0,874	31	0,355	0,456	75	0,227	0,296		
8	0,707	0,834	32	0,349	0,449	80	0,220	0,286		
9	0,666	0,798	33	0,344	0,442	85	0,213	0,278		
10	0,632	0,765	34	0,339	0,436	90	0,207	0,270		
11	0,602	0,375	35	0,334	0,430	95	0,202	0,263		
12	0,576	0,708	36	0,329	0,424	100	0,195	0,250		
13	0,553	0,684	37	0,325	0,418	125	0,176	0,230		
14	0,532	0,661	38	0,320	0,413	150	0,159	0,210		
15	0,514	0,641	39	0,316	0,408	175	0,148	0,194		
16	0,497	0,623	40	0,312	0,403	200	0,138	0,181		
17	0,482	0,606	41	0,308	0,398	300	0,113	0,148		
18	0,468	0,590	42	0,304	0,393	400	0,098	0,128		
19	0,456	0,575	43	0,301	0,389	500	0,088	0,115		
20	0,444	0,561	44	0,297	0,384	600	0,080	0,105		
21	0,433	0,549	45	0,294	0,380	700	0,074	0,097		
22	0,423	0,537	46	0,291	0,376	800	0,070	0,091		
23	0,413	0,526	47	0,288	0,372	900	0,065	0,086		
24	0,404	0,515	48	0,284	0,368	1000	0,062	0,081		
25	0,396	0,503	49	0,281	0,364					
26	0,388	0,496	50	0,279	0,361					

DOCUMENTATION



The researcher gaves students the test (vocabulary test)



The students answer the test



The researcher explained what are the Questionnaire for speaking test to the students





The students answer speaking test.