

THE CORRELATION BETWEEN ADJECTIVE MASTERY AND WRITING DESCRIPTIVE TEXT MASTERY AT GRADE VII STUDENTS OF SMPN 11 PADANGSIDIMPUAN

A THESIS

Submitted to the State Institute for Islamic Studies (IAIN) Padangsidimpuan as a Partial Fulfillment of the Requirement for the Graduate Degree of Education (S.Pd) in English Program

Written by :

NUR SAHARA DONGORAN Reg. Number. 15 203 00062

ENGLISH EDUCATIONAL DEPARTMENT

TARBIYAH AND TEACHER TRAINING FACULTY STATE INSTITUTE FOR ISLAMIC STUDIES PADANGSIDIMPUAN



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LETTER OF AGREEMENT

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Padangsidimpuan, Januari 2020 To: Dean Tarbiyah and Teacher Training Faculty In-Padangsidimpuan

Amalamu'alaikum Wr.Wb.

After reading, studying and giving advice for necessary revises on thesis to Nur Sahara Dongoran, entitled "The Correlation Between Adjective and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Writing Descriptive Text Mastery at Grade SMPN 11 Integristic and Herbert Advisory at Grade SMPN 11 Integristic advi

Therefore, we hope that the thesis will soon be examined in front of the thesis Examiner Team of English Departement of Tarbiyah and Teacher Training Faculty Padangsidimpuan. Thank you.

Wassalamu'alaikum Wr. Wb.

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vi

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LEGALIZATION

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		MASTERY AND WRITING DESCRIPTIVE TEXT	
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The Thesis had been accepted as a partial fulfillment of the requirement for the degree of graduate of Education (S.Pd.) in English

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- 3. Mrs. Dr. Lelya Hilda, M.Si., as the Dean of Tarbiyah Faculty.
- 4. Mrs. Fitri Rayani Siregar, M.Hum., as the Leader of English Department.
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- 6. IAIN Padangsidimpuan librarian (Mr. Yusri Fahmi, S.Ag.,,S.S.,M.Hum) for their cooperative and permission to use their books.

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Finally, the researcher realize that this thesis can't be considered perfectly without critiques and seggestions from the readers. Therefore, it is such a pleasure for me to get critiques and suggestions from the readers to make this thesis better.

> Padangsidimpuan, 2020 Researcher

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		Students of SMP N 11 Padangsidimpuan

ABSTRACT

This research was taken based on the fact of the students' problems in mastering adjective and writing descriptive text. The researcher identified many problems that there were many factors influence writing descriptive text mastery such as vocabulary, grammatical, Punctuation, spelling, and adjective. Finally, the researcher interested to research the correlation between adjective mastery and writing descriptive text mastery to the VII grade students of SMP N 11 Padangsidimpuan. In this research, the researcher wanted to find out about how significant the correlation between adjective mastery and writing descriptive text.

The population of this research was all the seventh grade students of SMP N 11 Padangsidimpuan. This school consists of three classes which consist of 70 students. The sample of this research was 70 students taken by using total sampling technique. Further, the instrument of this research used for collecting the data was by giving tests to the sample in multiple choice form essay form.

From the result of the data analysis, it was found that r_{xy} was 0.393 while ttable was 0.235. It means that $r_{count} > r_{table}$ (0.393>0.235) which means the hypothesis was accepted. However, it means there was a significant correlation between adjective mastery and writing descriptive text mastery to the seventh grade students of SMP N 11 Padangsidimpuan.

Key words: Adjectivey Mastery, Writing Descriptive Text Mastery

TABLE OF CONTENTS

TITLE PAGE	i
LEGALIZATION ADVISORS SHEET	ii
AGREEMENT ADVISORS SHEET	iii
DECLARATION OF SELF THESIS COMPLETION	iv
AGREEMENT PUBLICATION OF FINAL TASK FOR	
ACADEMIC CIVITY	v
SCHOLAR MUNAQOSYAH EXAMINATION	vi
LEGALIZATION OF DEAN OF TARBIYAH AND TEACHER	
TRAINING FACULTY	vii
ABSTRACT	viii
ACKNOWLWDMENT	ix
TABLE ON CONTENTS	X
LIST OF TABLES	xi
LIST OF FIGURES	xii
LIST OF APPENDIXES	xiii

CHAPTER I : INTRODUCTION

A. Background of The Problem	1
B. Identification of the Problem	5
C. Limitation of The Problem	5
D. Formulation of the Problem	6
E. Purposes of the Research	6
F. Significances of the Research	7
G. Thesis Outline	8

CHAPTER II: LITERATURE REVIEW

A. Theoretical Description	10
1. Writing Descriptive Text	10
a. Definition of Writing Descriptive Text	10
b. Purpose of Writing Descriptive Text	13
c. Process of Writing Descriptive Text	15
d. The Material of Teaching Descriptive Text	15
2. Adjective	22
a. Definition of Adjective	22
b. Function of Adjective	23
c. Position of Adjective	23
d. Kinds of Adjective	24
e. Form of Adjective	28
B. Review of Related Finding	32
C. Framework of Thinking	34
D. Hypothesis	35
* 1	

CHAPTER III : RESEARCH METHODOLOGY

A. Place and Time of the Research	36
B. Research Method	36
C. Population and Sample	37
1. Population	37
2. Sample	37
D. Definition of Operational Variable	38
E. Instrument of the Research	38
F. Validity and reliability of the Instruments	40
G. Technique of Collecting Data	43

CHAPTER IV : RESULT OF RESEARCH

A. Description of Data	47
B. Testing of Hypothesis	52
C. Discussion	56
D. Limitation of the Research	58

CHAPTER V : CONCLUSION AND SUGGESTION

A. Conclusion	59
B. Suggestion	60

REFERENCES APPENDIXES CURRICULUM VITAE

LIST OF TABLES

Page

Table 1	The Population of Grade VII Students of SMPN 11 Padangsidimpuan37
Table 2	Indicators of Adjective
Table 3	Indicators of Writing Descriptive Text
Table 4	The Table Interpretation of Mean Score44
Table 5	The Table Interpretation of Xy46
Table 6	The Score Resume of Students' Adjective Mastery
Table 7	The Frequency Distribution of Adjective Mastery
Table 8	The Score Resume of Students' Writing Descriptive Text Mastery50
Table 9	The Frequency Distribution of Students' Writing Descriptive Text Mastery
Table 10	Normality of Data X and Data Y
Table 11	Categories Value Correlation Coefficient and Degree Correlation

LIST OF FIGURES

		Page
Figure 1	The Correlation between Adjective Mastery and Writing Descriptive	
	Text Mastery	
Figure 2	Description Data of Students' Adjective Mastery	49
Figure 3	Description Data of Students' Writing Descriptive Text Mastery	

LIST OF APPENDICES

- Appendix 1 Instrument For Adjective Mastery
- Appendix 2 Instrument For Writing Descriptive Text Mastery
- Appendix 3 Key Answer of Adjective Mastery
- Appendix 4 Validity of Adjective Test
- Appendix 5 Calculation of Adjective Test
- Appendix 6 Table Validity of Adjective Test
- Appendix 7 Reliability of Adjective Test
- Appendix 8 The Result of Students Adjective Mastery
- Appendix 9 The Result of Students Writing Descriptive Text Mastery
- Appendix 10 The Result of Variable X and Variable Y
- Appendix 11 The Correlation Between Adjective Mastery and WritinDescriptive Text Mastery
- Appendix 12 Variable X (Adjective Mastery)
- Appendix 13 Variable Y (Writing Descriptive Text Mastery)
- Appendix 14 Normality Test of Data X
- Appendix 15 Normality Test of Data Y
- Appendix 16 Statistical Analysis of Data
- Appendix 17 Homegeneity Test
- Appendix 18 Chi-Square Table
- Appendix 19 Z-Table
- Appendix 20 Percentage Points of the t Distribution
- Appendix 21 Table Product Moment
- Appendix 22 Table Nilai "I" Untuk Taraf Significant 5% dan 1%
- Appendix 23 Documentation

CHAPTER I

THE INTRODUCTION

A. Background of the Problem

English is one of the international languages which used by many people to communicate in the world. Nowadays, English has become more and more important in side of life, including education, economic, business. English is also as the language of science and technology. People can find many books written in English that is way, people who always want to keep up with the growth of this globalization era must master English.

In 2013 curriculum, English as the foreign language has an important position in all levels of school in Indonesia. It is considered as one of compulsory subject that should be studied up to university. English is also one of subjects that must be based on educational curriculum.

Based on 2013, there are some materials of teaching English that must be mastered by students. They are four skills of English including listening, speaking, reading and writing. Writing is a one of language skills that taught at junior high school. The teachers have many attentions to teach writing to students. Usually the teachers evaluates the progress of learning student's writing. In fact, students get many difficulties in writing. They are lack of motivation, idea, and vocabulary, grammatical and uninterested media. Writing is one of the most important skills in language learning.

The objectives of writing is teaching the students by using some genres. There are five genres which are conducted in junior high school. They are narrative, recount, procedures, descriptive, and report. Each genre has own social function, the generic structure and the language features. After the students learn all the kinds of genres, they are expected to understand to differentiate the text according to their own features based on their genres. One of genres stated is descriptive text.

Descriptive text is a piece of writing that is intended to convey meaning to the reader through sensory details and provides image to the reader. Additionally, descriptive text is a paragraph that is defined as a group of sentence that are closely related in thought and which serve one comment process often used to describe what a person looks like and acts like, what a place looks like, and what an object looks like.¹ Furthermore, that descriptive paragraph is a type written text paragraph, in which has the specific function to describe about an object and it has the aim that is giving description of the object to reader clearly.

There are some efforts have done by the teacher to improve writing descriptive text such as provide the classroom to be quiet before start the learning process. Giving the materials (students' handbook), explain tenses, grammar, vocabulary, sentence structure, giving tasks or assignments individually or group which are commonly taken from students' worksheet, until the headmaster provides various of media in teaching English such as infocus.² So, the learning is more active and happy in the class. Thus, with

¹Tiur Asih, "Improving Students' Achievement on Writing Descriptive Text Through Think Pair Share" 3, no. July (2013): 30–43, http://digilib.unimed.ac.id/779/1/.

²Siti Handayani Sanjaya, as English teacher at SMP Negeri 11 Padangsidimpuan, *Observation*, (December 11th 2018, time: 11.00 p.m).

writing we can revealed and develop not only the structure of the sentence and grammar in use, but also the ideas, thinking, and our feeling about a meaning.

Based on an interview with Mrs. SHS as English teacher in SMPN 11 Padangsidimpuan, she said "the students of VII students of SMPN 11 Padangsidimpuan are difficult to write descriptive text and they do not have a lot of knowledge about adjective very well, and the students do not have enough vocabulary about adjective. The students also lazy to bring or to open the dictionary to interpret the adjective.³

There are many factors in writing descriptive text mastery. According to Barnet in F. Fauzi, he says" Influencing writing to be a good one such as vocabulary mastery, grammatical mastery, punctuation and spelling knowledge which must be integrated to be a paragraph".⁴Based on Derewianka in Ijeltal Journal, "adjective is one factor in writing descriptive text to add information to nouns (participant) and add information to verbs (action) to provide more detailed description about the topic".⁵So, the factor of writing descriptive text are vocabulary, grammatical, punctuation, spelling and adjectives. As mention above, there are some factors but the researcher only focuses on adjectives factor. Because first step to master writing descriptive text is by learning adjective.

³*Private Interview* with Mrs. Siti Handayani Sanjaya as the English teacher of the grade VII Students' (on December 11th 2018, at 9.30).

⁴Fikri Fauzi Alawi, "Improving Students' Ability in Writig Descriptive Text Using Cluestrering Technique" (Syarif Hidayatullah State Islamic University Jakarta, 2011) p.12

⁵Eko Noprianto and Universitas Pendidikan Indonesia, "Student 'S Descriptive Text Writing in SFL Perspectives" 2, no. 1 (2017), https://doi.org/10.21093/ijeltal.v2i1.5367.

So, to be able to write a descriptive text well, students need to pay attention to the adjective as one of the aspect in scoring writing descriptive text.

Adjective is one part of grammar that has an important position. It is used in arranging good sentence which has complete meaning especially in writing descriptive text, to describe about someone, something, or place we need to know adjective well.As we know in descriptive text often use adjective. Adjective is a word that describe noun, this noun provides more information about person, place, or thing.

Actually, adjective and descriptive text must be study and should be mastered by students. In learning, the writer believes that adjective is very important on writing English. Especially, in writing descriptive text because by mastering adjective, the English students will be able to combine some words or phrases into sentence, or some sentences into a good paragraph. Adjective is a descriptive word that changes the meaning of a noun or a pronoun, it means that adjective is important used for describe word order to make it clear and easy to understand.

Based on explanation above, the researcher is interested to conduct a research entitled "The Correlation between Adjective Mastery and Writing Descriptive Text Mastery at Grade VII Students of SMP N 11 Padangsidimpuan".

B. Identification of the Problem

Based on background of the problem above, writing Descriptive text is a process of formulating and organizing ideas in right words to deliver aim and present them on a piece of paper. Writing is very important capability for being owned by students, writing is also an excellent communication tool. Through writing, each person is able to convey feelings, ideas, and announcements to others. It is allows students to express something about themselves, explore and explain ideas. Students can convey their ideas in their mind by organizing them into a good text so that the others know them they can think critically.

The factors of writing descriptive text are vocabulary mastery, grammatical mastery, punctuation, spelling and adjectives. Adjectives are used to highlight qualities or attributes. Certain adjectives are typically used to describe particular nouns. So, When students write a descriptive text they should pay attention to adjective, word or phrase that is in use.

C. Limitation of the Problem

Based above identification of the problem here, there are some factors in writing descriptive text mastery, they are vocabulary mastery, grammatical mastery, punctuation, spelling and adjectives.

In this research, the researcher did not discuss all the factors. Researcher only focus on one factor that is adjective. Adjective is word that used to describe noun by giving some information about thing, people, or place.

D. Formulation of the Problem

Including the research, the researcher describes the formulation of the problem as follows:

- 1. How was the ability of the VII grade students of SMPN 11 Padangsidimpuan in mastering adjective?
- 2. How was the ability of the VII grade students of SMPN 11 Padangsidimpuan in writing descriptive text?
- 3. What are correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMP N 11 Padangsidimpuan?

E. Purpose of the Problem

Based on above formulation of this problem, the researcher determined that the purposes of this research can be stated as follows;

- To know the ability of the students adjective mastery at grade VII students of SMP N 11 Padangsidimpuan.
- 2. To know the ability of the students writing descriptive text mastery at grade VII students of SMP N 11 Padangsidimpuan.
- 3. To examine the significant correlation between English learning adjective mastery at grade VII students of SMP N 11 Padangsidimpuan.

F. Significances of The Research

The result of the research are expected to give both theoretically and practically:

1. Theoretically

Theoretically, this research is to improve knowledge either for teacher or society. The researcher hopes that the result of this study is expected to have contribution for development of English teaching, to give information to the reader about the correlation between students' adjective mastery and writing descriptive text mastery at SMP N 11 Padangsidimpuan.

- 2. Practically
 - a. For the teachers

The result of this research can give information for the teachers about the correlation between students' adjective mastery and writing descriptive text mastery. This result of this research can gives some information that can be used as a starting point whether it is important to increase the student's ability in writing descriptive text on the variable and the teacher can improve teaching learning process especially in writing descriptive text ability by giving more attention when he teach adjective mastery and descriptive text to the students. b. For the headmaster

To motivate the English teachers to teach English best.

c. For the researchers

The result of this research can be consideration and additional information for other researchers who will conduct any further studies in the same field.

G. The Outline of Thesis

The systematic of this research were divided into five chapters, each chapter consisted of many sub chapters with details as follow:

The first chapter consist of introduction, background of the problems, limitation of the problems, formulation of the problems, purpose of the problems, significances of the research, and thesis outline. This research is expected to be useful at least three domains, they are for the science of education, students, and for the next researchers.

The second chapter consist of the theoretical descriptions; review of related findings, framework of thinking and hypotheses. In this research, researcher has hypotheses that the significant correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMP N 11 Padangsidimpuan.

The third chapter consists of the research methodology; place and time of the research, research design, population and samples, 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; 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. Writing Description Text

a. Definition of Writing Descriptive Text

Writing is important to be learnt and mastered by every people. It is an activity to express the ideas, thoughts and feelings by written. According to Nunan, "Writing is the human mental process of inventing ideas, the thinking process about how to expresses and organize the thoughts into statements and paragraphs will be clear to a reader. It is both process and product.¹ According to Hary A. Greene, "writing is one means for expressing thought or idea, the effectiveness of thought, thus of the writing is dependent upon both the natural ability and experiences of the individual".² So, writing is the process of expressing the idea to write something.

Based on Tiur Asih in Jurnal "writing is a very important capability for being owned by students, writing is also an excellent communication tool.³Based on M. Fadhly in jurnal " writing is the one of skills used to deliver ideas. In learning process, writing is organized

¹Nunan, David, *Language Teaching Methodology, A Textbook for teachers*, (America :theMc. Grow Hill Companies, 2003), p. 88

²Greene, Hary A. and friend, *Developing English Language Skill in Elementary School*, (Boston, London, Sidney), p. 88

³Tiur Asih "Improving Students' Achievement on Writing Descriptive Text Through Thik Pair Share" 3, no. July (2013): 30–43, http://digilib.unimed.ac.id/779/1/

well that gives the good result for students.⁴Trough writing, each person is able to convey feelings, ideas, and announcements to others. By the explanation of the experts above, it can be concluded that writing is a communication tool that should be mastered by the students to deliver their ideas by the written language.

Descriptive text is a kind of text with a purpose to give information. The context of this kind of text is the description of particular thing, animal, person, or other. For instance: our pets or a person we know well. According to Wishon George, "Descriptive text is written English in which the writer describes an object. In the text, the object can be a concrete or abstract object".Next ,Otong also definite the purpose of description is to describe a person, thing, place, or a specific animal.

According to Y. Rozimela in Journal, "A descriptive text is a text which writers tries to picture what he describing. Description is used to describe a particular thing/object, place, or person.⁵ It means that the meaning of writing descriptive text is to describe any particular object. Based on Dedi Sanjaya in Jurnal, "Descriptive text is a text may be defined as a group of sentence that are closely related in thought and which serve one comment purpose often used to describe what a person looks likeand acts like, what a place looks like, and what an object looks

⁴M. Fadhly & Shelvira Elsa, "Solving the students' problem in Writing Descriptive Text through Attributive Charts Strategy", *Jurnal Pendidikan*, vol 10, no 1, p. 97.

⁵Yenni Rozimela, Lailatul Husna, Zainil, "An Analysis of Students' Writing skill in Descriptive Text", *Journal English Language Teaching (ELT)*, vol 1, no 2, p.2.
like.⁶In means descriptive text is the text which is describes person, place, mood, situation and it is also describes an object that appeal to the sense.

Based on the above explanation, it can be concluded that writing descriptive or description used in writing whose aim is to describe physical items or objects of which features are concrete or touchable, and it may be attained through using thesensory language or five senses consisting of sight, hearing, smell, taste, and touch.Writing Descriptive text or sometimes called as description may be considered as a writing of which use is to describe or depict the appearance of persons, animals, things, or other physical items as well as object whose features are concrete or touchable. By the writing descriptive text the students can be able to explain something in oral or written language.

Writing descriptive text has some parts that should be mastered by the students before start to write a paragraph descriptive. According to M. Mursyid that the part of descriptive paragraph was divided in to three parts, they are;

1) Social Function

The social function of descriptive text is to describes a particular person, place, or thing.

2). Generic Structure

The generic structure of descriptive text consist of identification
and description.
Identification: identifies phenomenon to be described.
Description: describes parts, qualities, characteristic.

⁶Dedi Sanjaya, Lia Agustina, Enhancing the EFL Students' Achievement in Writing Descriptive Text Through Think-Pair-Share, Vol.2, No.1, 2019. P.64

- 3). Language Features
 - There are four dominant grammatical aspects in descriptive text.
 - a. Use simple present tense
 - b. Focus on specific participant
 - c. Use of attributive and identifying process
 - d. Using adjective
 - e. Using classifier in nominal group.⁷

Based on the above, it can be conclude that description paragraph is a paragraph that describes a particular person, place or event in great deal. Description writing vividly portrays a person, place, or things in such a way that the reader can visualize the topic and enter into the writer's experience. It is a way to enrich others forms of writing or as a dominant strategy for developing a picture of what something looks like.

b. The Purpose of Writing Descriptive Text

Writing is not only putting the sentence into a paper, but there are some purpose of writing. Based on McMahan in Evan's thesis mention the purpose of writing as follows:

1. To express the writer's feeling

The writer wants to express his feeling and thought in written forms, as in a diary or a love letter. It is what is so called as expressive writing.

- 2. To entertain the readers The writer intends to entertain the reader through written form, and he usually uses authentic materials. It is called as literary writing.
- 3. To inform the readers It is used to give information or explain something to readers. It is akind of informative writing.
- 4. To persuade the readers The writer wants to persuade or convince the reader about his opinion or concept or idea. It is called as persuasive writing.⁸

⁷M. Mursyid PW, *The Learning of Descriptive Text*, (Buku Materi PelatihanTerintegrasi bagi Guru Bahasa Inggris , 2005), p. 4.

⁸Evan's Dwi Ardyana Putri, "Teaching Learning Process of Writing Descriptive Text at the Grade Students of MTS Negeri Gondangrejo in the Academic Year 2017/2018" (The State Islamic Institute of Surakarta, 2018) P.46.

Based on the quotation above, the purpose of writing that it is helpful to keep in mind some of the many uses we are likely to make of writing. On personal level, people use writing to make a note something, for example shoppinglist, and diaries, etc, and use it to keep records of things to be remembered. Writing is also used to send message in the forms of letters, memos, and many kinds of writing are use to deliver the message from one to others.

In other hand, there is special purpose of writing descriptive text in junior high school. Based on 2013 curriculum, the purpose of writing descriptive text as follow:

- 1. Comparing social function, text structure, and linguistic elements of several written descriptive text by giving and requesting information related to description of people, animals, and object very short and simple, according to the context of their use.
- 2. Comprehend contextual meaning related to social functions, text structure, and linguistic elements written descriptive texts are very short and simple, related to people, animals, and objects.
- 3. Arrange of written description texts, taking into account social function, text structure, and linguistic elements, correctly and in context.⁹

The specific explanation above, the purpose of writing descriptive text is to express description of people, animals, and object that related to social function, text structure, and linguistic elements of written descriptive text. The students can able to describe, introduce, commend, identifies, and criticize of written descriptive text.

⁹Pusat Kurikulum dan Perbukuan, *When English Rings a Bell kelas VII* (edisi revisi, kurikulum 2013, Balitbang, Kemdikbud).

c. The Process of Writing Descriptive Text

Writing cannot be produced instantly, it needs process. Writing isseen as process to experience rather that merely a product to be read.According to Jack. C. Richard, Willy A Renandya that, the process ofwriting as a classroom activity incorporates the four basic, they are:1) Planning (prewriting) is any in the classroom that encourage students to write.

- 2) Drafting (writing) is once sufficient ideas are gathered at the planning stage, the first attempt at writing that is drafting may process quickly.
- 3) Revising (redrafting) is when the students revise, the students review their text on the basis of the feedback give responding stage.
- 4) Editing is in this stage students are engaged in tidying up their texts as the students prepare the final draft for evaluation by the teacher.¹⁰

So, it can be conclude that if the students follow the steps, and

practice by writing often, they will find it easier to write descriptive text.

d. Material of Teaching Descriptive Text

Language instruction has five important components. They are students, a teacher, material, teaching methods, and evaluation. Materials should teach students to learn, that they should be resources books for ideas and activities for instruction/learning, and that they should give teacher rationales what they do. Textbooks are too inflexible to be used directly as instructional materials.

Theoretically, experienced teachers can't teach English without a textbook. However, it is not easy to do it all the time, though they may do it sometimes. Many teachers do not have enough time to make

¹⁰Richard, Jack C. and Willy A. Renandya, *Methodology in Language Teaching*, (United States of America : Cambridge University Press), p. 316.

supplementary materials, so they just follow the textbook. Textbooks therefore take a very important role in language classes, and it is important to select a good textbook.

Materials are things which are used to help the teacher to teach and the students to understand what was taught by the teacher. The materials which are used to teach must be appropriate with the grade of the students and the curriculum that is occur at that time.

The material of teaching writing descriptive text is taken from the students' handbook. The example of descriptive in this book is appended through the conversation. The content of the material explain about describing place and people. The conversation 1 in this material is describing about the notebook, while the conversation 2 is describing about the science teacher. In material of writing descriptive text also has some exercise. The kind of exercise is filling in the blank. So the students should write down the true answer in the blank place.

These materials will be used by the researcher to teach the students about writing descriptive text, or as a media in teaching writing descriptive text. To make be clear, the researcher will present the material of the students in teaching writing descriptive text as the following below:

1). Describing place/thing









Fill the blank words below!

•	with Edo's notebook is <u>thick</u> , with <u>a blue hard cover</u> . It has <u>a white</u> <u>ribbon separator</u> . There is <u>a sticker on the cover</u> . It is <u>shiny, white</u> <u>and round</u> , with <u>a picture of an orang-utan</u> .
•	2. Lina's house is in The roof blue. It has no It is and There are two trees One of them is It is near There from Tana Toraja hanging
•	the front door. It is with There is a big stonethe his house. Some children often and there.
• •	3. The big shoe-shop near sells different models of There are different of shoes. Some shoes have Some shoes flowers in the front. Some shoes plain. There are also shoes with, and open, like sandals. They low heels. They comfortable.
•	4. Mr. Gani wants a T-shirt, short sleeves. It is a and one. He wants one with about Bali

Source: Buku Bahasa Inggris When English Rings a Bells Kelas VII SMP/MTs.

2. Adjective

a. Definition of Adjective

Adjective is one of the part of speech is used to modify, describe or quantity a noun or a pronoun. By using adjective will be able to paint a clearer picture and provide a more comprehensible message to the audience. According to Hendri in Journal, "an adjective is a word whose main syntactic role is to modify a noun or pronoun, giving more information about the noun or pronoun's definition.¹¹According to Wren and Martin, " adjectives a word used with a noun to describe or point out, the person, animal, place, or thing which the noun names, or to tell the number or quantity.¹²Using adjective make the writing more visual and vivid.

Based on Marcella, "the adjective is modifier that has the grammatical property of comparison. It is often identified by special derivational endings or by special adverbial modifiers that precede it. It is most usual position is before the noun it modifies, but it fills other position as well. For example: the small boy, the boy is small.¹³ It means that adjective is very important in writing descriptive text.

¹¹Hendri, "Students Ability to Use Descriptive Adjective in Sentence" 11 (2016): 14–23 P.23.

¹²Wren & Martin, *High School English Grammar and Composition*, (N.D.V. PrasadaRao, 2013), P.19.

¹³Marcella Frank, *Modern English a Practical Reference Guide*, (New York: University Prentice Hall, 1997), P. 109.

Adjectives are essential for describing and differentiating concepts. However, they have a protracted development relative to other word classes.Knowledge of adjectives is a central component in understanding and producing language. Adjectives are a critically important grammatical class for expanding children's repertoire beyond naming to describing, modifying, and discriminating entities.

Based on explanation above, adjective is one of the part of speech is used to modify, describe or quantity noun and used to add information about noun.

b. Function of Adjective

These five categories are not only shown the adjective types, but

also shown their function in the adjective. They are:

- 1). To attribute or quality people, animals, things, or places in order to describes its features.
- 2). To express possession of a noun by someone or something.
- 3). To modify nouns for particular details in quantifying.
- 4). To noun modifier either in singular or plural form
- 5). To modify nouns for particular details in exact quantifying.¹⁴

To conclude, the function of adjective is word that used to describe

nouns by giving some information about thing, people, or place.

c. Positions of adjective

There are five positions of adjective used in writing. They are:

1). A single adjective used attributively is generally place immediately before the noun; as,

King francis was a *hearty* king, and loved a *royal* sport. Where are you going my *pretty* maid, with your *rosy* cheeks and *golden* hair?

¹⁴Jutharat Jitpranee, "A Study of Adjective Types and Functions in Popular Science Articles," *International Journal of Linguistics* 9, no. 2 (2017), https://doi.org/10.5296/ijl.v9i2.10811 P.63.

2). The adjective is frequently place after the noun; as,

Children dear, was it yesterday.

We heard the sweet bells over the bay.

3). When several adjective are attached to one noun they are general placed after it for emphasis; as,

There dwelt a miller hale and bold.

The king, *fearless* and *resolute*, at once advanced.

Franklin had a great genius, inventive. original, and sagacious,

4). When some word or phrase is joined to the adjective to explain its meaning, the adjective place after its noun; as, He was a man *fertile* in resources.

A Sikh, *taller* than any of his comrades, rushed forward.

5). In certain phrase the adjective always comes after the noun; as,

Heir apparent, time immemorial, lord paramount.¹⁵

Adjective has position, according to A.J. Thomas and A.V.

Martinet in a practical English grammar, as.

- 1). Adjective in a group come before their noun in this position are called attribute adjective.Example: this pen, my cat.
- 2). Adjective of quality: however can come either before noun, in this position are called predictive adjective.Example: a rich man, a happy girl.¹⁶

Based on explanation above, it can be conclude that there are some

positions where an adjective can be place - before a noun, after a noun,

or in the predicate. There are positions of adjectives are called attributive,

postpositive and predicative respectively.

d. Kinds of adjective

Adjectives is the word which is used to modify noun or pronoun.According to Wren & Martin, There are many principles of kinds adjective, they are; Adjective of quality, Adjective of quantity, Adjective of number, Demonstrative adjective, Interrogative adjective,

¹⁵Wren and Martin, *High school English* ..., p. 33.

¹⁶A.J. Thomson and A.V Martinet, *A practical Grammar*, (New York: Oxford University Press, 1986), p. 33.

Emphasizing adjective and Exclamatory adjective¹⁷. There seven kinds of

adjective as follow:

1). Adjectives of quality

Adjectives of quality (or Descriptive Adjectives) show the kind of quality of a person or thing.

Example:Large, Honest, Foolish, and so on

Calcutta is a *large* city

He is an honest man

2). Adjective of quantity

Adjective of quantity is an adjective used to talk about the quantity or things. Beside Wren and Martin that adjective show how much of a things is meant.

Example: some, much , little, enough, and so on

I ate some rice

He showed *much* patience

He has *little* intelligence

3). Adjective of number

Adjective of number (or Numeral Adjectives) show how many persons or things are meant; or in what order a person stands: as Example: The hand has *five* finger

Few cats like cold water

There are *no* pictures in this book.

Adjective of Number (or Numeral Adjective) are of three kinds:

- a). Definite Numeral Adjective, which denote an exact number; as One, two, three, etc. These are called Cardinals First, second, third, etc. These are Ordinals.
- b). Indefinite Numerals, which do not denote an exact number; as All, no; many, few; some, any; certain, several.
- c). Distributive Numeral Adjectives, which refer to each one of a number; as, *Each* boy must taken his turn
 England expect *every* man to do his duty
 Either pen will do
- 4). Demonstrative adjective

Demonstrative adjectives point out which person or thing is meant:

Example: This boy is stronger than Ahmad That boy is industrious These mangoes are sour

¹⁷Wren & Martin, *High School English...*,p. 20.

5). Interrogative adjectives

Interrogative adjectives what, which, and whose when they are used with singular ask question; as,

Example: What manner of man is he?

Which way shall we go? Whose book is this?

6). Emphasizing adjectives

In the following sentence the words own and very are used as Emphasizing adjectives.

Example: I saw it with my own eyes

He was beaten at this own game

Mind your own business

 7). The word what is sometimes used as an Exclamatory adjectives: Example: What genius! What an idea! What a blessing!¹⁸

According to Sevia Yolanda's thesis, "adjective is the word which

is used to modify noun or pronoun. There are five kinds of adjective as

follow.

1. Possessive adjective

Possessive adjective is the adjective which is used to point out the

noun that belongs to someone. Such as: my, your, our, his, her, and its.

Example:

-This is my book -your car is outside -his girl friend is waiting

2. Descriptive Adjective Descriptive adjective is the adjective that is used to tell sorts of

noun or quality. Example:

- He is tall man

- They are good students

¹⁸Wren & Martin, *High School English...*, p. 21-23.

- She is beautiful girl

3. Numeral adjective

Numeral adjective is the adjective which is used to show the number of a noun. There are three types of numeral adjective, such as:

a. Definite numeral adjective

Definite numeral adjective is the adjective that is used to denote

an extract number of a noun as: first, second, third, one, two, three.

Example:

-AnkorWat is the seventh wonders of the world -Ankor temple has got five towers

b. Indefinite numeral adjective Indefinite numeral adjectives is the adjective which is to denote

an inexact number of nouns as: some, any, much, many, little, a

few. Example:

- I have some friend here
- She has a few picture
- He has got much money
- c. Distributive numerical adjective

Distributive numerical adjective is the adjective that is used to

cache one noun. They are: every, each, another, other. Example:

-Each student is very friendly -they speak to another person

4. Demonstrative adjective

Demonstrative adjective is the adjective which is used to point out

the noun. They are: this, these, that, those. Example:

-that man is very handsome -these girl are good looking 5. Interrogative adjective

Interrogative adjective is the adjective that is used to ask the

question. They are: where, what, which,... example:

-which animal do you like?
-where doctor is he?
-what food do you prefer?¹⁹

Based on the explanation above, the writer take summarize about adjective. Adjective is classified into possessive adjective, descriptive adjective, numeral adjective, demonstrative adjective, interrogative adjective.

e. Form of adjective

The form of an adjective is often changed to show the extent or degree of quality present in a person or thing. These elements form of adjective one word, adjectivephrase and adjective clause. The form of adjective of this research are:

1. Adjective one word

Adjective are often used as noun;

a). As plural nouns denoting a class of persons; as

The cautious (cautious persons) are not always cowards *The rich* (rich people) know not how the poor (poor people) live *The wicked* (wicked people) flee when no man pursueth , but the righteous (righteous people) are bold as a lion. Blessed are the meek.

b). As Singular Nouns denoting some abstract quality; as *The future* (futurity) is unknown to us

He is a lover of the *beautiful* (beauty in general)

- c). Some adjectives actually become noun, and are hence used in both numbers:
 - (1) Those derived from proper nouns; as, Australians, Canadians, Italians.

¹⁹Sevia Yolanda, "The Correlation Between Adjective Mastery In Using Adjective and Their Ability in Writing Descriptive Text" 2017 P.29.

- (2) Some denoting persons, as, Juniors, seniors, mortals, inferios superiors, nobles, criminals, savages, elders, minors.
- (3) A few denoting things generally; as, *secrets, totals, liquids, solids, valuables.*

Some adjectives are used as nouns only in the plural; as, *sweeets*, *bitters*, *valuables*, *entables*.

- d) In certain phrases; as,
 - In general ; *in future, in short, in secret before long, at present, for* good, at best, through thick and thin, for better or for worse, in black and white, right or wrong, from bad, to worse, the long and short.

Example ; *In future* I shall charge you for medical advices, I shall see you *before long In short*, we know nothing.²⁰

2. Adjective phrase

An adjective phrase is a phrase which has an adjective as its head. Based on Wren and Martin, "An adjective phrase is a group of words that does the work of an adjective.²¹ It means an adjective phrase is a phrase which has an adjective as a elements like extremely happy, quite, large. An adjective phrase, which has the same distribution and function as an adjective plays an important role in the construction of simple or complex sentences.

The construction of adjective phrasein writing descriptive text is as the complementation, the example follow:

The sentences <u>this place is very interesting with mystical story</u>, has adjective phrase <u>very beautiful</u>. The phrase <u>very</u> is adjective as complementation and <u>interesting</u> is head as adjective too.

²⁰Wren and Martin, *High School English Grammar and Composition*, (N.D.V. PrasadaRao, 2013), p.32.

²¹Wren and Martin, *High School English Grammar* ...,p.185.

The sentence <u>it looks more beautiful at night</u>, has adjective phrase <u>more beautiful</u>. the phrase <u>more</u> is adjective as complementation and <u>beautiful</u> is head as adjective too.²² It is expected that the findings will give more contribution to the study of phrase especially the adjective phrase.

Based on above, this study is helpful for writer to enrich their knowledge about the adjective phrase like where the adjective phrase can be located in sentences, what can be the elements of the adjective phrase and how the function of the elements in the adjective phrase. It is clear that the adjective phrase, which has the same distribution and function as an adjective.

3. Adjective clause

A clause is the part that occurs frequently in the English book such textbook. A clause may be defined in the same way as a sentence. It is full prediction that contains a subject and a predicate with a finite verb. According to Wren and Martin, "Adjective clause is a group of words which forms part of a sentence, and contains a subject and predicate.²³ According to A. Prihandini in Journal, "adjective clause is a dependent clause that function like an

²²Intan Wijayanti, "The Use of Phrase in Writing Descriptive Text by the Students", (School of Universitas Muhammadiyah Surakarta, 2016), p. 12.

²³Wren and Martin, *High School English...*, p. 195

adjective.²⁴ It means dependent clause that can't stand by itself because it does not have a complete idea yet.

There are two kinds of clauses; independent and dependent. The independent clause is a full prediction that may stand alone as a sentence, the dependent clause has a special introductory word that makes the prediction depend on an independent clause. Nevertheless, when the students learn it, they face problems which are caused by the lack of knowledge in grammar especially in adjective clause. For mastering it, the students need the comprehension about the relative pronouns that describe a noun or pronoun.

Commonly, the relative pronouns are who, whom, whose, that, and which. In the following sentence, the group of words in examples are clauses:

a). People who pay their debts are trusted

- b). we cannot start while it is raining
- c). I think that you have made a mistake²⁵

Based on explanation above, an adjective clause is subordinate clause used to modify a noun or pronoun in the main clause. It may be introduced by the pronoun who, whose, whom, which, or that (and sometimes when or where). These pronouns are called relative pronouns because they relate to a noun or a pronoun in the sentence. Occasionally, no relative pronoun is used, but it is implied or understood.

²⁴Asih Prihandini, "The Use of Adjective Clause In English Sentence," *Majalah Ilmiah Unikom* 9, no. 2 (1985): 139–46 p.139.

²⁵Wren and Martin, *High School English* ..., p. 3.

B. Review Related Findings

There are related finding that discuss about writing descriptive text: The first, research done by Sevia Yolanda showed that the result 0.8 in the table is 0.325 for level of significant 0.05. The value of correlation coefficient obtained 0.8 which is higher than $r_{critical}$ of product moment (0.8 > 0.325) and the criteria of correlation of 0.800 – 1.00 are considered very high.²⁶ It means that the correlation is very high of the two variables.

The second is Siswanti Ritonga based on the result calculating data, there was significant correlation between reading habit and ability in writing descriptive text at grade X students SMA N 6 Padangsidimpuan in good category. The calculating of product moment by getting correlation coeficientsr $x_{y=}$ 0.740. The significant correlation level was done by looking r_{table} on significant level 5% was 0.235 and on significant level 1 was 0.306. The hypothesis (H_o) in this research was accepted namey $r_{count>}r_{table}$ (0.740>0.235).²⁷It meant there was a correlation between reading habit and ability in writing descriptive text in good category.

The third is Nur Azizah based on conclusion of her research before using scaffolding strategy, the mean score of experimental class and control class were 69,2 and 67.3. After using scaffolding technique, the mean score of

²⁶Yolanda, "The Correlation Between Adjective Mastery In Using Adjective and Their Ability in Writing Descriptive Text" p.140.

²⁷Siswanti Ritonga, "The Correlation between Reading Habit and Ability in Writing Descriptive Text" at Grade X Students of SMA N 6Padangsidimpuan in 2018 Academic Years, (*Unpublished thesis*) IAIN Padangsidimpuan, 2018.

experimental and control class were 79.16 and 68.55.²⁸ It means that the result of research showed there was significant effect of using scaffolding on students' ability in writing descriptive text a X Grade of MAN 1 padangsidimpuan.

The fourth is Yuyun Azizah there is significant correlation between the students' vocabulary mastery (X) and their writing in descriptive text (Y) for the seventh grade students of SMP Islam Sudirman 1 Bancak, Semarang District in the academic year 2016/2017. It is obtained the result of multiplication by using pattern of product moment correlation. The correlation score is 0.563. It is able to be shown in the index correlation. ²⁹The index is 0.600- 0.800. It is Able to be concludes that the high and the low writing ability correlate with the high and the low of English vocabulary mastery.

The Fifth is Muslikh Based on the data described previously, this study reaches at a conclusion that there is significant relationship between the students of MTS Soebano Mantofani Jombang, Tangerang Selatan, academic year 2013/2014.³⁰ It means that the better the students have vocabulary mastery, the higher their writing descriptive text ability will have.

Beside, the researcher also found significant correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMPN

²⁸Nur Azizah, "The Effect of Scaffolding on Students' Ability in Writing Descriptive Text", at X Grade of MAN 1 Padangsidimpuan in 2017/2018 Academic Years, (*Unpublished thesis*) IAIN Padangsidimpuan, 2018.

²⁹Yuyun Azizah, "The Correlation Between Srudents' Vocabulary Mastery and Their Writing Ability in Descriptive Text (A Study for the Seventh Grade Students of SMP Islam Sudirman 1 Bancak Semarang District in the Academic Year 2016/2017" 2017 P.13.

³⁰Muslikh, "The Relationship Between Students' Vocabulary Mastery and Their Writing Descriptive Text Ability" (Syarif Hidayatullah State Islamic University Jakarta, 2014).accessed at May 8, 2019 retrieved on 11.47 pm.

11Padangsidmpuan in good category. It can be gotten by using the calculating of product moment formula where coefficient correlation level r_{count} was 0.393 and r_{table} on 5% significant level was 0.253. So, the significant correlation was 0.393>0.253 (r_{count} > r_{table}). Then, on calculating the hypothesis testing has gotten t_{count} was 35.4 with df = n-2 (70-2 = 68) and t_{table} on 5% significant level was 35.4 So, the significant variables were 35.4>1.99 (t_{count} > t_{table}) and the hypothesis H_a was accepted.

C. Framework of Thinking

Adjective is one of the part of speech is used to modify, describe or quantity a noun or a pronoun. By using adjective will be able to paint a clearer picture and provide a more comprehensible message to the audience.

Writing descriptive text is important to be learnt and mastered by every people. It is an activity to express the ideas, thoughts and feelings by written. Writing descriptive text is the ability to produce a text which describes briefly a certain kind of object such as a person, a place, a thing, or an animal.

The role of adjective in writing descriptive text is describe word, especially, noun or pronoun (word that substitute for noun). It is used in arranging good sentence which has complete meaning especially in writing descriptive text, to describe about someone, something, or place we need to know adjective well. As we know in descriptive text often use adjective. Without an adjective we cannot describe a thing, or a person in the sentences.It means that adjective is very important in writing descriptive text. Based on explanation above, it can be assumpt that there is correlation between adjective mastery and writing descriptive text mastery.



Figure 1 The Correlation Between Adjective Mastery and Writing Descriptive Text Mastery.

D. Hypothesis

Based on the frame of thinking above, the writer proposes the hypothesis as follows:

- Ho: There is no significant correlation between students' mastery in using adjective and writing descriptive text mastery.
- Ha: There is a significant correlation between students' mastery in using adjective and writing descriptive text mastery.

CHAPTER III

RESEARCH METHODOLOGY

A. Place and Time of the Research

The research was done at SMP Negeri 11 Padangsidimpuan, that is located in Jl. Sm. Raja Gg. Air Bersih, Sitamiang Baru, Padangsidimpuan, North Sumatera.

The time of the research was done from 23th July 2019 up to finish.

B. Research Method

This kind of this research is quantitative research where the method is descriptive method. Descriptive method is carried out to obtain information about the references, attitudes, practices or interest some group of people.¹Descriptive method is a method which describe condition of the present time naturally. In this research, the researcher conducted descriptive method to know the correlation between adjective mastery and writing descriptive text mastery.

From the above explanation, this research was aimed to find out the relationship between student's adjective mastery and student's writing descriptive text mastery.

¹L. R. Gay and Peter Airaisan, *Educational Research: Competencies for Analysis and Applications* (Prentice Hall Inc: New Jersey, 2000), p. 279.

C. Population and Sample

1). Population

The population of this research is the grade VII students of SMPN 11 Padangsidimpuan. It consist of 3 classes, the population number is shown in the table below:

Table 1. The Population of the Grade VII Students in	SMP	N	11
Padangsidimpuan.			

No	Class	Population
1	VII-1	23
2	VII-2	23
3	VII-3	24
Total		70

Source: School Administration Data of SMP N 11 Padangdsidimpuan.

2). Sample

Sample is the small group that is observed. It selected from a larger group which consist of the individuals, items or events referred to as population. A sample is a portion of population.² L. R Gay and Airaisan figures sample is a number of individuals for a study in such a way that they represent the large group from who they were selected.³ So, sample is a portion of population that was selected as respondent in the research.

The researcher used total sampling technique. According to Sugiyono, the total sampling is a technique to collect the data which is the total number sample is similar with the total population.⁴ It means that researcher took all of seventh grade of SMPN 11 Padangsidimpuan as the

²Donald Ary, et. al., *Introduction to Research.....*, p. 148.

³L. R. Gay and Peter Airaisan, *Educational Research*.....,p. 121

⁴Sugiyono, *Metode Penelitian Kualitatif dan Kuantitatif dan R&D* (Bandung: Alfabeta, 2007) hal. 124.

sample of population. The sample of this research is 70 students or all the population from 3 classes of VII-1, VII-2, and .VII-3.

D. Definition of Operational Variable

Based on the tittle of the thesis, this research is consisted of two variables, so that the definition of variables as follow:

1. Adjective Mastery:

The students' mastery in using adjective is students ability to express or create clear ideas of what the noun or pronoun tastes, smells, fells, looks, and sounds purpose to make the descriptive more vivid and the reader can hear, see, touch, and smell what they are describing. There are four indicators of adjective mastery they are: descriptive adjective, possessive adjective, numeral adjective, demonstrative adjective.

2. Writing descriptive text mastery:

The students' mastery in writing descriptive is the students' ability to produce a text which describe briefly certain kind of object such as a person, a place, a thing, or an animal which fulfills the criteria of good writing. There are two indicators of writing descriptive text they are: generic structure (identification, description), language feature (use simple present tense, specific participant, using attributive and identifying process, using adjective, using classifier in nominal group).

E. Instrument of the Research

Instrument is the important thing in a research. Suharsimi says that instrument is a tool to help the researcher in collecting the data easier and systematically.⁵ The quality of the instrument will establish the quality of the data. The instruments of this research to collect the data are multiple choice test and free writing descriptive test. The instrument will be explained below:

1. Adjective Test

For the adjective test, the researcher use the multiple choice type in order to facilitate the students to answer the test.

No	Indicator	Number of items	Items
1		1,3,7,8,12,13,18,20,21,23,24,27,29,	25
	Descriptive	30,35,39,40,41,43,46,47,51.52.53,54	
	adjective		
2		2,14,19,26,32,34,37,42,50,55,56,57,58	25
	Possessive	59,60,64,65,66,67,70,91,92,93,95,96	
	adjective		
3		5,9,10,15,16,25,31,36,49,61,62,63,68,	25
	Numeral	69,78,79,80,88,89,90,94,97,98,99,100	
	adjective		
4		4,6,11,17,22,28,33,38,44,45,48,71,72,	25
	Demonstrative	73,74,75,76,77,81,82,83,84,85,86,87	
	adjective		
		Total	100

Table 2. Indicators of Adjective Mastery

2. Free Writing Descriptive Test

The writer gave this test to measure the students' ability in writing descriptive text. In this case, the writer focused on descriptive text. Therefore, the students were asked to write descriptive based topic given. To know the students' writing ability, the writer asked the students to write a descriptive text. Indicators of writing descriptive text is presented in the following table:

⁵Suharsimi Arikunto, *Prosedur Penelitian* (Jakarta: Rieneka Cipta, 2002), p. 134.

Indicators	Sub Indicators	Score	Criteria
Generic Structure	Identification	12-15	Very good
		8-11	Good
		4-7	Low
		1-3	Very low
	Description	12-15	Very good
		8-11	Good
		4-7	Low
		1-3	Very low
	Use simple present	12-15	Very good
Language Features	tense	8-11	Good
		4-7	Low
		1-3	Very low
	Specific participant	11-14	Very good
		7-10	Good
		4-6	Low
		2-3	Very low
	Using attributive and	11-14	Very good
	identifying process	7-10	Good
		4-6	Low
		2-3	Very low
	Using adjective	10-13	Very good
		7-9	Good
		4-6	Low
		1-3	Very low
	Using classifier in	10-13	Very good
	nominal group	7-9	Good
		4-6	Low
		1-3	Very low

Table 3. Indicators of Writing Descriptive Text

Source: M. Mursyid PW, The Learning of Descriptive Text

F. Validity and Reliability of the instrument

Validity and reliability are the important thing toward the research. On this research there were two instruments that had been identified the validity and reliability, as follow:

1. Validity

Validity is to see the correctness an instrument to do the function to measure. Donal Ary states validity is the extent to which a test measures

what it claims to measure.⁶ In this Research, the validity of instrument utilized for test.

The validity of writing descriptive text used the construct validity. Construct validity is a test validity based on the judgement of the experts. In this case, expert would be given opinion about the instrument, what is instrument can be used or still need improving, or may be the instrument is failed. The reseracher would use multiple choice test and free writing test. To make it sure, the researcher would consult to the English teacher of SMPN 11 Padangsidimpuan and a lecturer who teaches in English education Department Institute Islamic **Studies** of State for Padangsidimpuan.

The researcher used the content and item validity to find out the validity of instrument for adjective test. Item validity is a part of the test as a totally to measure the test by Items. The test consisted of 100 multiple choices test that would be validated in other sample. To get the validity of the each test would be refer to list *r* biserial with r in 5% significant level was 0.349 and 1% significant level was 0.449. So, The test is categorized valid if the $r_{count} > r_{table}$.

To get the validity of test, the formula of *r Point biserial* can be used as follow:

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

⁶Donald Ary, et. al., *Introduction to Research in Education* 8th Ediition (Canada: Wadsworth Cengage Learning, 2010), p. 201.

Where:

r_{pbi} : coefficient item validity

M_p : mean score

 M_t : mean score of the total score

 SD_t : Standard Deviation of the total score

p : Presentation of the right answer of the item tested validity

q : Presentation of the wrong answer of the item tested validity.⁷

2. Reliability

An instrument of the research must be reliable. According to Donal Ary, Reliability is the extent to which the test measures accurately and consistently.⁸ The instrument was said reliable when the instrument believable to used as an instrument of collecting data because the instrument is good.

The writing descriptive test was categorized reliable, because this instrument based on expert. The reliability of the test can be found by using K-R 20 formula.⁹ The formula is as follow:

$$\mathbf{R}_{11} = \left(\frac{n}{n-1}\right) \left(\frac{S_{t^2} - \sum pq}{S_{t^2}}\right)$$

⁷Anas Sudijono, *Pengantar Statistik Pendidikan* (Jakarta: PT Raja Grafindo Persada, 2008), p. 258.

⁸Donald Ary, et. al., Introduction to Research..., p. 201.

⁹Suharsimi Arikunto, Prosedur Penelitian...., p. 182

Where:

R₁₁: Reliability of the Instrument

N : Total of Question

St² : Variants Total

p : <u>Proporsi Subject who is right Answer (1)</u>

q : <u>Proporsi Subject who is Wrong Answer (0)</u>

Reliability is a good character of the test that refers to the consistency of the measurement. The test is reliable if $r_{count} > r_{table}$ by using formulation KR-20.

G. Technique of Collecting Data

After the processed of data collection, the researcher analysed the data by using quantitative data. Analysis data means the process of calculation and arrangement systematically of the data was done by researcher. In quantitative research the most suitable analysis was using the statistical process and with following steps.

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

N

Ν

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

c. Know the modus of score used the formula:
$$M_{O} = \ell + \left(\frac{fa}{fa + fb}\right) xi \text{ atau } M_{0} = U - \left(\frac{fb}{fa + fb}\right) xi^{10}$$

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

Source: Nana Sudjana and Ibrahim, Penelitian dan Penilain Pendidikan

3. Identified the Normality Test

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:

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

Where:

 x^2 = Value of Chi- square

 f_o = Observed Frequency

 f_e = Expected Frequency

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.

¹⁰Anas Sudijono, *Pengantar Statistik Pendidikan* (Jakarta: PT Raja Grafindo Persada, 2008), P. 85-106

4. 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:

$$r_{xy} = \frac{N(\Sigma XY) - (\Sigma X)(\Sigma Y)}{\sqrt{[N(\Sigma X^2) - (\Sigma X)^2][N(\Sigma Y)^2 - (\Sigma Y^2)]}}$$

Where:

 \mathbf{r}_{xy} = coefficient correlation between variable X and Y

X = The scores of variable X

Y = The scores of variable Y

XY = Product X and Y

5. To Examine the Significances Variable

To examine the significances variable X and Y was calculated by:

$$\mathbf{T} = \frac{r_{xy} \quad \sqrt{n-1}}{\sqrt{1 - (r_{xy})^2}}$$

Where:

T = result of t- test N= total of sample r_{xy} = Coefficient correlation between X and Y¹²

6. To Know the contribution of coefficient determination variables

To know the contribution of coefficient correlation between variables X

and Y. it can be define The Formula Determinant Correlation:

$$CD = r^2 \ge 100\%$$

¹¹Suparni, et. al., *Pengantar Statistik Pendidikan* (Jakarta: Gaung Persada press Jakarta, 2009), p. 97

¹²Riduan, Belajar mudah Penelitian untuk Guru, Karyawan dan Peneliti Pemuda, p. 98.

Where:

CD = contribution of coefficient determination

r = coefficient correlation

The result should be appropriated with the interpretation to the index correlation of product moment, the interpretation of the result can be seen in the following table.

Product Moment	Interpretation
Between 0.00 – 0.20	Very low
Between 0.20 – 0.40	Low
Between 0.41 – 0.70	Enough
Between 0.71 – 0.90	High
Between 0.91 – 100	Very High

 Table 5. The Table Interpretation of XY

Source: Sugiyono, Statistika untuk Penelitian.

CHAPTER IV

RESULT OF RESEARCH

In this chapter, the researcher discussed the result of this research about the correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMPN 11 Padangsidimpuan. The researcher has calculated the data by using descriptive method. Applying the quantitative analysis, the researcher used the formulation "r" product moment. Then the researcher describe the data as follow:

A. Description of the Data

The data described by sequence of variables, description of the research of result from variable (X) was adjective mastery and variable (Y) was writing descriptive text mastery. In this part, the researcher showed the result or score of both of the variable.

1. Adjective Mastery

After calculating the score, it was gotten that the lowest score was 72 and the highest score was 94. To complete this research data, the researcher also calculate the mean score was 87.11 the median score was, 84.93 and the mode was 83.75 (See in appendix 12). Mean score is the score which represents the general value that was achieved by the students. Median is the middle score or score which divided a distribution of data into equal part and mode is the score which has the most frequency.
So, the score resume of variable X that adjective mastery of the grade VII students of SMPN 11 Padangsidimpuan has been gotten as table below:

No	Statistic	Variable X
1	High Score	94
2	Low Score	72
3	Range	22
4	Interval	3
5	Mean score	87.11
6	Median score	84.93
7.	Mode	83.75

Table 6. The Score Resume of Students' Adjective Mastery

Based on the above table, it showed that mean was 87.11. It means that the students' adjective mastery was in very good category. To know revelation of data was done to grouped the variable score of adjective mastery which the total classes 7 and interval 3.

Then, the computed of the frequency distribution of the student's score of group can be applied in to table frequency distribution as follows:

Table 7. The Frequency Distribution of Adjective Mastery

Interval	Mid Point	Frequency	Percentage
74 – 76	75	4	5.71%
77 – 79	78	8	11.4%
80-82	81	10	14.2%
83 - 85	84	16	22.8%
86 - 88	87	14	20.0%
89 - 91	90	10	14.2%
92 - 94	93	8	11.4%
Total		70	100 %

Based on the above table, it was known that the variable revelation of students' adjective mastery showed that the respondent an interval 74–76 were 4 students (5.71%), interval 77 – 79 were 8 students (11.4%), interval 80 – 82 were 10 students (14.2%), interval 83 – 85 were 16 students (22.8%), interval 86 – 88 were 14 students (20.0%), interval 89 – 91 were 10 students (14.2%), and last interval 92 – 94 were 8 students (11.4%).

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





Figure 2: The Histogram of Adjective Mastery

2. Writing Descriptive Text Mastery

The score resume of variable Y that students' Writing Descriptive Text mastery of the grade VII students of SMPN 11 Padangsidimpuan has been gotten as table below:

No	Statistic	Variable Y
1.	High score	88
2.	Low score	68
3.	Range	20
4	Interval	3
5.	Mean score	78.5
6.	Median score	76.36
7.	Mode	80

 Table 8. The Score Resume of Students' Writing Descriptive Text

 Mastery

Based on the above table, the researcher has gotten high score was 88, low score was 68 mean score 78.5, median score was 76.36, mode score was 80 (See in appendix 13). The calculation of mean score at students' Writing Descriptive Text Mastery was in enough category. To know the revelation of data was done to group the variable score of writing descriptive text mastery which the total classes 7 and interval 3.

Then, the computed of the frequency distribution of the student's score of group can be applied in to table frequency distribution as follows:

Interval	Mid Point	Frequency	Percentages
68 - 70	69	7	10.0%
71 – 73	72	8	11.4%
74 – 76	75	10	14.2%
77 – 79	78	14	20.0%
80-82	81	13	14.2%
83 - 85	84	10	18.5%
86 - 88	87	8	11.4%
Total		70	100%

Table 9. The Frequency Distribution of Students' Writing DescriptiveText Mastery

Based on the above table, it was known that the variable revelation of students' writing descriptive text mastery showed that the respondent at interval 68 - 70 were 7 students (10.%), interval 71 - 73 were 8 students (11.4%), interval 74 - 76 were 10 students (14.2%), interval 77 - 79 were 14 students (20.0%), interval 80 - 82 were 13 students (14.2%) and the last interval 83 - 85 were 10 students (18.5%) and the last 86-88 were 8 students (11.4%).

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



Figure 3: The Histogram of Writing Descriptive Text Mastery

B. Testing of Hypothesis

1. Normality Test

After getting the resume score of variable X and 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 hypothesis.

	Normality	
Class	Test	
	t _{count}	t _{table}
Data X	66.1	88.250
Data Y	4.11	88.250

Table 10. Normality of Data X and Data Y

Based on the table above, the score of data $X = x_{count}^2 < x_{table}^2$ (66.1< 88.250) with n = 70 and Data $Y = y_{count}^2 < y_{table}^2$ (4.11< 88.250) with n =70, on 5% significant level. It meant that data X and Y were distributed normal (See in appendix 14 and 15).

2. Hypothesis Testing

The aim of hypothesis testing was to determine the correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMPN 11 Padangsidimpuan by using the product moment formula. Before testing the hypothesis, first performed the calculation of the scores obtained by the respondents as the table below:

 $\sum X = 5943$ $\sum Y = 5502$ $\sum X^2 = 506429$ $\sum Y^2 = 434650$ $\sum XY = 467060$

By using the values above, calculated the value of correlation between variable X dan Y explained below:

$$\begin{split} \mathbf{r}_{xy} &= \frac{N\Sigma XY - (\Sigma X)(\Sigma Y)}{\sqrt{[N.\Sigma X^2 - (\Sigma X^2)][N.\Sigma Y^2 - (\Sigma Y)^2]}} \\ &= \frac{70(467060) - (5943)(5502)}{\sqrt{[70.506429} - (506429)2][70.434650 - (434650]2} \\ &= \frac{32694200 - 32698386}{\sqrt{[35450030} - 25647033][30425500 - 18892062]} \\ &= \frac{-4186}{\sqrt{[9802997]}[11533438]} \\ &= \frac{-4186}{\sqrt{113062258}} \end{split}$$

$$=\frac{-4186}{10633}$$

= 0.393

 H_a : There is a significant correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMPN 11 Padangsidimpuan.

Based on the above calculating, the product moment has gotten coefficient correlation $r_{xy} = 0.393$ was higher than $r_{table} = 0.235$ on 5% significant level. The hypothesis (H₀) was accepted namely $r_{count}>r_{table}$ (0.393>0.235). The result showed that there was a significant correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMPN 11 Padangsidimpuan in good category. It has been written in the table of coefficient correlation interpretation below.

Table 11. Categories Value Correlation Coefficient and Degree Correlation

The Value	Degree
Between 0.00-0.20	Very Low
Between 0.21-0.40	Low
Between 0.41-0.70	Enough
Between 0.71-0.80	High
Between 0.91-1.00	Very High

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

 $t_{\text{count}} = \frac{r\sqrt{n-1}}{\sqrt{1-r^2}} = \frac{0.393\sqrt{70-1}}{\sqrt{1-0.393^2}}$

$$=\frac{0.393\,\sqrt{69}}{\sqrt{1-0.154}}$$

$$= \frac{0.393 (8.30)}{\sqrt{0,846}}$$
$$= \frac{32619}{0.919}$$
$$= 35.4$$

Based on the calculation above, the researcher found that $t_{count} = 35.4 \text{ df} = n-2$ (70-2 = 68) and t_{table} on 5% significant level = 1.99. So, $t_{count} > t_{table}$ (35.4>1.99). It means that there was a significant correlation between two variables that it was said that the validity of the contribution of variable X to variable Y was "accepted".

To look for the contribution of variable X to variable Y as follows: CD = The score of coefficient determination

r = The score of the coefficient correlation

 $CD = r^2 x \ 100 \ \%$

- $= (0.393)^2 \times 100\%$
- = 0.154 x 100%
- = 15%

Based on calculating above, the contribution variable X (Adjective Mastery) toward variable Y (Writing Descriptive Text Mastery) there was 15 % and 85% influenced by other variables.

C. Discussion

Based on the result of this research, the researcher has proven that students' adjective mastery has correlation to students' writing descriptive text. Adjective is one aspect should be owned by every students to make them understand and master English language. It support on the theory that states at previous chapter findings. Sevia Yolanda show that there is correlation between adjective and writing descriptive text that the result 0.8 in the table is 0.325 for level of significant 0.05. The value of correlation coefficient obtained 0.8 which is higher than $r_{critical}$ of product moment (0.8 > 0.325) and the criteria of correlation of 0.800 – 1.00 are considered very high.¹ It means that the correlation is very high of the two variables.

Yuyun Azizah found that there is significant correlation between the students' vocabulary mastery (X) and their writing in descriptive text (Y) for the seventh grade students of SMP Islam Sudirman 1 Bancak, Semarang District in the academic year 2016/2017. It is obtained the result of multiplication by using pattern of product moment correlation. The correlation score is 0.563. It is able to be shown in the index correlation. ²The index is 0.600- 0.800. It is Able to be concludes that the high and the low writing ability correlate with the high and the low of English vocabulary mastery. Siswanti

¹Sevia Yolanda, "The Correlation Between Students' Matery in Using Adjective and Their Ability in Writing Descriptive Text at the Eight Grade of SMPN 1 Talang Padang in the Academic Year of 2016/2017," 2017 (State Institute of Islamic Studies, 2017), p.66, https://www.google.com.accessed at April 11, 2019 retrieved on 11.57 pm.

²Yuyun Azizah, "The Correlation between Students ' Vocabulary Mastery and Their Writing Ability in Descriptive Text (A Study for The Seventh Grade Students of SMP Islam Sudirman 1 Bancak Semarang Districtinthe Academic Year 2016 / 2017)" (state istitute for islamic studies salatiga, 2017), repository, perpus, iainsalatiga.ac.id.accessed at August 16, 2019 retrieved on 9.08 am.

based on the result calculating data, there was significant correlation between reading habit and ability in writing descriptive text at grade X students SMA N 6 Padangsidimpuan in good category. The calculating of product moment by getting correlation coeficients $r_{xy=}$ 0.740. The significant correlation level was done by looking r_{table} on significant level 5% was 0.235 and on significant level 1 was 0.306. The hypothesis (H_o) in this research was accepted $r_{count>}r_{table}$ (0.740>0.235).³It meant there was a correlation between reading habit and ability in writing descriptive text in good category.

The researcher compare it with the result on research of related findings: Sevia Yolanda found that here was significant positive correlation between students' adjective mastery and their writing descriptive text mastery. Since the correlation coefficient obtained (0.8) is higher than the table value (0.325), it means that there is a significant positive correlation between the two variables and the correlation is considered to be substantial.⁴

Based on explanation above, it was proved that this research have the result almost same with other research, where the mean score of students' adjective mastery was good category and the mean score of students' writing descriptive text mastery was enough category. It was assumed that not all students with good adjective mastery also have good writing descriptive text mastery and not all students with good writing descriptive text mastery have good adjective mastery. So, it is clearly adjective mastery have the significant

³Siswanti Ritonga, "The Correlation between Reading Habit and Ability in Writing Descriptive Text" at Grade X Students of SMA N 6Padangsidimpuan in 2018 Academic Years, (*Unpublished thesis*) IAIN Padangsidimpuan, 2018.

⁴Sevia Yolanda, "The Correlation Between... p.64

correlation to students' writing descriptive text mastery. Adjective mastery is needed and really important in writing descriptive text mastery.

The last, it was supported by this research and it was proved by testing hypothesis of the research, it is found that adjective mastery have the significant correlation to students' writing descriptive text mastery of the grade VII students of SMPN 11 Padangsidimpuan. This fact can be seen from r_{count} > r_{table} (0.393>0.235) and t_{count} > t_{table} (35.4>2.10).

D. Limitation of the Research

The researcher limits this research, as follows:

- 1. The researcher gives the questionnaire and test to sample and explains them about the instruction.
- 2. The researcher does not know how serious and concentrate the students when they were answering the test.
- 3. The researcher does not saw the measuring honest aspects of the students in answering the test until possibility the students cheat or guess.
- 4. There is no the original data from the teacher that showed the original score that students got for one semester.

CHAPTER V

CONCLUSION AND SUGGESTION

A. Conclusion

After getting the result of research data, the research came to describe the data as follows:

- 1. The students' adjective masteryof the grade VII students SMPN 11 Padangsidimpuan was "VeryGood" by getting mean score was 87.11.
- The students' writing descriptive text mastery of the grade VII students SMPN 11Padangsidimpuan was "Good" by getting mean score was 78.5.
- 3. Based on the result of dataanalysis ,there was asignificant correlation between adjective mastery and writing descriptive text mastery at grade VII students of SMPN 11 Padangsidmpuan in good category. It can be gotten by using the calculating of product moment formula where coefficient correlation level r_{count} was 0.393 and r_{table} on 5% significant level was 0.253. So, the significant correlation was 0.393>0.253 (r_{count}>r_{table}). Then, on calculating the hypothesis testing has gotten t_{count} was 35.4 with df= n-2 (70-2= 68)and t_{table} on 5% significant level was 35.4 So, the significant variables were 35.4>1.99 (t_{count}>t_{table}) and the hypothesis H_a was accepted.

B. Suggestion

After finishing this research, the researcher got much information in English teaching and learning process. Therefore, the writer has suggestion to:

- 1. The headmaster of SMPN 11Padangsidimpuan was hoped to support the English teachers to teach well and provide facilities involves with learning English.
- 2. The English Teachersshould give motivation to the students and give information about the important in learning English, especially to learn more about using adjective and writing descriptive text. The result of this research can be consideration and additional information for other researchers who will conduct any further research in the same field.
- 3. Theoretically, the result of this research provided English teacher, especially the English teacher of the school where the writer carried out this research. A reflection of their achievement of the teaching and learning process of descriptive text; in addition, practically, the result of this research prompt the English teacher the alternative instruction that will be able to increase and improve students' the adjective mastery and writing descriptive text mastery. The researcher hopes that the result of this research expected to have contribution for development of English teaching, to give information to the reader about the correlation between students' adjective mastery and writing descriptive text mastery at SMP N 11 Padangsidimpuan.

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INSTRUMENT FOR ADJECTIVE MASTERY

1. Pengantar

- a. Instrument ini bertujuan untuk menjaring data siswa tentang pembelajaran adjective, oleh karena itu jawablah sesuai kemampuan anda.
- b. Jawaban anda tidak mempengaruhi kedudukan anda di sekolah ini.
- c. Jawaban anda tidak mempengaruhi nilai bahasa inggris anda di sekolah ini.

2. Petunjuk

- a. Bacalah pertanyaan pertanyaan berikut dengan seksama.
- b. Jawablah pertanyaan berikut dengan tepat.
- c. Apabila pertanyaan kurang jelas tanyakan langsung kepada pengawas.
- d. Waktu yang tersedia 45 menit.

3. Soal

Choose the correct answer from the option a, b, c, or d !

No	Indicators	Number of items	Items
1			
	Descriptive	1,3,7,8,12,13,18,20,21,23,24,27,29,	25
	adjective	30,35,39,40,41,43,46,47,51.52.53,54	
2			
	Possessive	2,14,19,26,32,34,37,42,50,55,56,57,58	25
	adjective	59,60,64,65,66,67,70,91,92,93,95,96	
3			
	Numeral	5,9,10,15,16,25,31,36,49,61,62,63,68,	25
	adjective	69,78,79,80,88,89,90,94,97,98,99,100	
4			
	Demonstrative	4,6,11,17,22,28,33,38,44,45,48,71,72,	25
	adjective	73,74,75,76,77,81,82,83,84,85,86,87	
		Total	100

Table 2Indicators of adjective mastery

The following is formula to score students' adjective mastery:

Students score =
$$\frac{Students \ score \ answer}{Total \ Items} \ge 100\%$$

Nama : Kelas :

Choose the best answer a, b, c, d to the following questions!

1.	She has long and hair.	
	a. Curly	c. slim
	b. Happy	d. late
2.	I love swimming. Sometimes I go to publ	ic swimming pool with family.
	a. My	c. their
	b. Your	d. our
3.	I have fallen in love with woman	
	a. Closed	c. wooden
	b. Beautiful	d. handsome
4.	boy stole the book .	
	a. That	c. Those
	b. These	d. This
5.	I have bought egg. That should be en	ough.
	a. Six	c. one
	b. Some	d. much
6.	Which of the following contains a demon	istrative adjective?
	a. Red socks	c. stinky socks
_	b. Old socks	d. those socks
7.	Choose the correct sentences!	
	a. Maria loves this muffins	c. Maria loves these muffins
0	b. Maria loves those muffin	d. Maria loves that muffins.
8.	He drives a bright red sports car. It is ver	ry car.
		c. Tast
0	b. Shallow	d. tall
9.	John has a younger sister. His younger s	ister is year old.
	a. Several	c. nrst
10	D. SIXteen There were abildren in the close	d. ones
10	. There were children in the class.	a
	a. Nobody	d fow
11	Choose the incorrect sentence!	d. Iew
11	a Sam owns that motorcycle	c. Sam owns those motorcycle
	b Sam owns these motorcycle	d Sam owns this motorcycle
12	Lim bought a house in my neighborh	a. Sam owns and motorcycle
14	a Awkward	c large
	h Electric	d fat
		u. 101

13. Kim always buys food at this supermarket			
a. Gentle	c. empty		
b. Fresh	d. hopeful		
14. My computer is very old keyboard	doesn't work well.		
a. Its	c. it's		
b. It is	d. his		
15. He stood in the class.			
a. One	c. every		
b. First	d. each		
16. There is a lake in the park where you ca	n see people enjoying activities.		
a. One	c. many		
b. First	d. much		
17 issue has troubled us in the past.			
a. These	c. that		
b. Those	d. this		
18. She has stories to tell me about her	life experiences.		
a. Interest	c. pretty		
b. Interesting	d. ugly		
19. David and Sarah don't go out at night _	father doesn't let them.		
a. Their	c. his		
b. Them	d. her		
20. Betty always likes to sit at table in t	he corner near the front windows.		
a. Thin	c. small		
b. Fat	d. pretty		

Question no 21-24

I have a (21) _____ bedroom. My mother and father teach me and ask me to clean (22) _____ room every day. I agree the neatness and cleanness will be gathered and felt by the room dweller if the room is always cleaned. (23) ____ body and (24) ____ soul will be gotten by sleeping well.

21.	a. wild	b. cheerful	c. comfortable	d. trouble
22.	a. those	b. these	c. these	d. that
23.	a. loose	b. hearty	c. healthy	d. strong
24.	a. calm	b. hard	c. weak	d. rough

Question no 25-27

SBY is the nickname of the (25) ____ Indonesia president. It stands for Susilo Bambang Yudhoyono. In (26) ____ life, he ever feel. He is the wisest president of all. I agree and hope to still develop this (27) ___ country.

25. a. six	b. sixty	c. sixteen	d. sixth
26. a. their	b. it	c. her	d. his
27. a. love	b. lovely	c. loveless	d. loved

28. Choose the correct sentence!

- a. These apples are delicious, but those apples are not.
- b. This apples are delicious, but that apples are not.
- c. That apples are delicious, but this apples are not.
- d. Those apple is delicious, but these apple are not.

29. At	night time, I sometimes think a r	nonster is hiding under my bed.	
a.	Red	c. terrifying	
b.	Нарру	d. lonely	
30. M	y younger brother likes to eat wor	rms.	
a.	Dirty	c. strong	
b.	Slimy	d. long	
31	_ one of us must attend the meeting.		
a.	First	c. some	
b.	Several	d. every	
32. Da	we lives in Germany, but brother	s live in France.	
a.	Her	c. he	
b.	His	d. she	
33	_ is my favorite type of ice cream.		
a.	Those	c. this	
b.	These	d. the	
34. M	y friends and I like new classroom	n.	
a.	Our	c. they	
b.	Their	d. he	
35. Jo	sh likes coffee. So, he doesn't put	t a lot of sugar in it.	
a.	Sweet	c. bitter	
b.	Salty	d. sour	
36. There is only solution to every problem written on the board.			
a.	Every	c. one	
b.	Each	d. first	

Question no 37-40

I have a pet. (37) ____ name is catty. It always sleeps on my bedroom me and often scratches my bad cover. (38) ____ cat is always playful. It eats (39) ____ food and does not like fish. My catty is small but (40) ___ pet.

37. a. its	b. it is	c. my	d. this
38. a. its	b. those	c. this	d. these
39. a. fast	b. animal	c. fried	d. stale

40. a. large	b. tall	c. low	d. fat

My brother is very (41) _____. He is also a good football player. (42) ______ is generous. He is funny, too. I (43) _____ him very (44) _____ but I don't like (45) ______ things about him. His room always messy. He puts his things everywhere. Sometimes he is smelly because he is sweaty but he doesn't take a bath straight away. He drinks much soft drink. He does not like fresh water. I'm often worried about his health.

41. a. smart	b. one	c. some	d. much
42. his	b. he	c. they	d. its
43. love	b. she	c. nice	d. first
44. some	b. three	c. much	d. this
45. much	b. little	c. eat	d. drinks

46. Which word is an adjective?

a.	Run	b. food
b.	Eat	d. pretty
47. To	ny is the boy in the school	
a.	Handsome	c. these
b.	Beautiful	d. them
48	_ pens are blue	
a.	These	c. pen
b.	Thing	d. those

I have (49) ____ pets. However, (50) ____ favorite pet is Timmy. Timmy is a male tabby cat. He is very adorable with his soft stripes fur. He has innocent round eyes and feeble (51) ____ voice. He always meow when I come home, he usually give me kiss. Timmy is a nice playmate, I'm so (52) ____ to spend time with him.

49. a. high	b. that	c. her	d. some
50. a. them	b. my	c. pets	d. smile
51. a. this	b. sweet	c. second	d. their
52. a. happy	b. cry	c. long	d. tall

I have small a pet. It is a dog and I call it Dolgy. Dolgy is a chinese breeed. It is (53) ____, fluffy, and (54) ____. (55) ____ has got thick black fur.

53. a. small	b. four	c. third	d. it
54. a. many	b. man	c. cute	d. dog
55. a. it	b. run	c. has	d. have

56. ____ mother is so tough. She is the hero of my life.

a. its	c. her
b. my	d. his

57.Witty comes from Sulawesi island. She and _____ family live in Jakarta now.

a.	Its	c. her
b.	My	d. his

58. I have a cat _____ fur color is black and white. It looks like a cow.

a. Its	c. her
b. my	d. his
50) sister has a fo	worite necklace that she wear all

(59) _____ sister has a favorite necklace that she wear all the time. (60) _____ was the necklace that appear in a Korean Drama with the title 49 days.

59. a. my	b. she	c. that	d. it
60. a. this	b. Korean	c. it	d. that

My sister gave me a wallet (61) _____ years ago. It is still in a good condition now. It is about (62) _____ centimeters long. It is made of synthetic leather and the color is black. There are (63) _____ layers of storage that we can use to keep some important cards and money. We can also put a photo of (64) _____ family in it.

61. a. four	b. she	c. he	d. I
62. a. 21	b. that	c. this	d. these
63. a. second	b. long	c. three	d. my
64. a. photo	b. it	c. our	d. much

I have to pick up someone today at the airport. (65) _____ is from Australia. His name is George. I never meet (66) _____ before and I do not have his picture. So, I prepare s small board and write his name. (67) ____ will bring that at the airport. I hope George will find me.

65. a. he	b. this	c. three	d. first
66. a. she	b. him	c. our	d. it
67. a. my	b. small	c. I	d. meet

I live in a small house. It has (68) ____ rooms. There are (69) ____ bedrooms, a living room, a bathroom, and a kitchen. Indeed it is a small house, but (70) ____ like living in here for wasting my spare time.

b. it	c. many	d. five
b. two	c. those	d. these
I b. like c. few		d. my
re cold.		
	c. them	
	d. childrens	
	b. it b. two b. like ure cold.	b. it c. many b. two c. those b. like c. few ure cold. c. them d. childrens

72 book is expensive.	
a. it	c. this
b. its	d. those
73 movie is funny.	
a. movies	c. it
b. that	d. these

I have a pet. It is a cat and I call it Brownie.(74) _____ is my birthday gift from my father. I'm very surprised. How wonderful this cat.

74. a. it	b. this	c. these	d. those				
75 birds is small							
a. these	b. nice	c. it	d. its				
76 morning is pe	erfect for a walk.						
a. sun	b. hot	c. water	d. this				
77 shoes is beau	tiful						
a. good	b. it	c. this	d. its				
78. Aisyah bought	_ comics.						
a. she	b. best	c. five	d. her				
79. Abdul gets the	_ best in his class.						
a. much	b. room	c. second	d. clean				
80. My mother brings	apples for me.						
a. some	b. his	c. him	d. her				

There are some students in the school yard. They put their hat on the grass. WhenI pass them, I ask them, "are (81) _____ your hats?81. a. thisb. thatc. thesed. those82. This book here is mine, but _____ one over there is hers

62. THIS DOOK H	ere is innie, but one	over mere is ners.	
a. this	b. that	c. these	d. those
83 pens her	e are his, but those pen	s over there are thei	rs.
a. this	b. that	c. these	d. those
84 books an	re mine		
a. these	b. my	c. I	d. it
(85) glass he	ere is mine, but (86)	one over there is h	is.
85. a. this	b. his	c. her	d. many
86. a. glass	b. that	c. she	d. much
87. She can't ear	t all of popcorn.		
a. one	b. them	c. is	d. that
88. he saw	animals in the zoo.		
a. many	b. see	c. hers	d. his
89. There isn't _	sugar in my coffee.		
a. five	b. it	c. much	d. sweet

I bought this wa	tch from an online	shop with my (90)	salary as an English
club trainer.			
90. a. many	b. first	c. my	d. an
My mother is a curly hair and bro	beautiful person. (' own.	91) is not tall but no	ot short, and she has
91. a. my	b. her	c. them	d. she
(92) have a f	avorite jacket. (93)	was a birthday prese	nt from my sister.
92. a. my	b. that	c. I	d. second
93. a. it	b. is	c. it's	d. him
My rabbit ivana, which I was very	(94) months a happy at that time	go, I celebrated (95) because given the gift of	birthday is the 12 th , a rabbit is very cute.
94 a I	h two	c these	d this
95. a. it	b. 12 th	c. happy	d. my
96.Kiky and Fatin	mah are Arabian, _	family are from Engla	nd.
a. Its	b. my	c. her	d. their
97. I have b	ooks in my own lit	orary.	
a. many	b. much	c. my	d. it
98. I need s	ugar into my coffee	е.	
a. three	b. fifty	c. a little	d. my
99. There are	houses in this vil	lage.	
a. those	b. that	c. this	d. many
100. I have o	oranges.		
a. five	b. its	c. sixth	d. fifth

Validator

Researcher

<u>Siti Handayani, S.Pd</u> NIP. <u>Nur Sahara Dongoran</u> NIM. 1520300062

INSTRUMENT FOR WRITING DESCRIPTIVE TEXT

Name :

Class :

4. Pengantar

d. Test ini bertujuan untuk menjaring data dari siswa/i mengenai student's in writing descriptive text dan jawaban anda tidak mempengaruhi kedudukan anda di sekolah ini.

5. Petunjuk

e. Tulislah dalam bentuk teks descriptive berdasarkan pengetahuan anda.

f. Apabila ada pertanyaan kurang jelas, tanyakan langsung kepada pengawas.

6. Soal

Write down the descriptive text about "My Best friend"

Answer Key

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

VALIDITY OF ADJECTIVE TEST

NO	Item																												
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	2
1	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	0	1	0	0	(
2	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	1	0	1	1	1	0	0	1	1	1	0	(
3	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	(
4	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	0	1	1	0	0	1	1	0	1	1	1	1	0	(
5	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	0	0	1	0	0	(
6	0	1	1	1	0	0	0	0	0	1	1	1	1	1	0	1	0	1	0	1	0	0	1	1	0	1	0	0	
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	(
8	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	0	1	
9	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	(
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1	(
12	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	1	0	1	0	1	1	1	1	0	(
13	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	1	0	0	1	1	0	1	1	1	1	0	(
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	1	0	1	0	1	1	1	1	1	1	0	(
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1	0	(
17	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	1	1	1	1	1	1	0	1
18	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	1	0	1	0	1	1	0	1	1	0	1	0	0	(
19	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	1	0	1	1	0	0	1	0	0	(
20	0	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	
n=20	13	16	16	16	13	13	13	13	13	13	13	18	17	12	8	13	4	13	3	18	10	11	13	16	13	19	13	4	
р	0,7	0,8	0,8	0,8	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,9	0,9	0,6	0,4	0,7	0,2	0,7	0,2	0,9	0,5	0,6	0,7	0,8	0,7	0,95	0,7	0,2	0
q	0,4	0,2	0,2	0,2	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,1	0,2	0,4	0,6	0,4	0,8	0,4	0,9	0,1	0,5	0,5	0.4	0,2	0,4	0,05	0,4	0,8	0

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
0	1	0	1	0	1	0	0	1	0	1	1	1	1	0	1	0	1	1	0	0	1	1	1	0	0	0	0	0	1
1	1	1	0	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	1	0	1	1	0	0	1	1	1	0	0	0	0	0	1
1	0	1	1	1	0	1	1	0	1	1	0	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1
0	1	0	0	0	1	0	1	1	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1
1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
0	1	0	1	0	1	0	0	1	0	1	1	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	0	0	1
0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	1	0	1	1	0	0	1	1	1	0	0	0	0	0	0
13	19	13	16	13	19	13	4	19	13	16	14	14	14	13	19	13	19	14	13	13	16	16	16	13	13	13	13	13	13
0,7	1	0,7	0,8	0,7	0,95	0,7	0,2	0,95	0,7	1	0,7	1	0,7	0,7	0,95	0,7	1	0,7	0,7	0,7	0,8	0,8	0,8	0,7	1	0,7	0,7	0,7	0,7
0,4	0,1	0,4	0,2	0,4	0,05	0,4	0,8	0,05	0,4	0	0,3	0	0,3	0,4	0,05	0,4	0,1	0,3	0,4	0,4	0,2	0,2	0,2	0,4	0	0,4	0,4	0,4	0,4

61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
1	1	1	1	1	1	0	0	0	1	0	0	1	1	0	1	0	0	0	0	0	1	0	1	0	1	0	0	1	0
0	1	1	1	0	0	0	1	0	1	1	1	0	0	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	1
0	0	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
0	1	1	0	0	0	1	1	0	0	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
0	1	0	1	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0
1	1	1	1	0	1	0	1	0	1	0	0	1	1	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	0
1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	0	1	1	0	1
1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	1	0	1	1	0
1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1
1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	0	0	0	0	0	1	0	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
0	1	1	1	0	0	1	1	0	0	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
1	1	0	0	0	1	0	1	0	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
1	1	1	0	0	1	0	1	0	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1
1	1	0	0	0	1	0	1	0	1	1	0	1	1	0	1	0	0	0	0	0	1	0	1	0	1	0	0	1	0
1	1	1	0	0	1	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0
0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	0
13	18	17	12	8	13	4	13	3	18	10	11	13	16	13	19	13	4	3	13	13	19	13	16	13	19	13	4	19	13
0,7	0,9	0,9	1	0,4	0,7	0,2	0,7	0	0,9	0,5	1	0,7	0,8	0,7	0,95	1	0,2	0,2	0,7	0,7	0,95	0,65	0,8	0,7	0,95	0,7	0,2	0,95	0,7
0,4	0,1	0,2	0	0,6	0,4	0,8	0,4	1	0,1	0,5	0	0,4	0,2	0,4	0,05	0	0,8	0,9	0,4	0,4	0,05	0,35	0,2	0,4	0,05	0,4	0,8	0,05	0,4

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

A. Calculation of Adjective Test

1. Mean score from score total (M_t)

$$M_t = \frac{\sum X_t}{N}$$
$$M_t = \frac{1467}{20} = 73.35$$

2. Standard Deviation (SD_t)

$$SD_{t} = \sqrt{\frac{\Sigma X_{t^{2}}}{N} - \left(\frac{\Sigma X_{t}}{N}\right)^{2}}$$
$$SD_{t} = \sqrt{\frac{121611}{20} - \left(\frac{1467}{20}\right)^{2}}$$
$$SD_{t} = \sqrt{6080.55 - 73.53^{2}}$$
$$SD_{t} = \sqrt{6080.55 - 5380.22}$$
$$SD_{t} = \sqrt{700.33} = 26.46$$

3. Mean Score (M_p)

$$\begin{split} M_{pl} &= \frac{total\ score\ of\ students'\ score\ that\ true\ item\ answer}{n1} \\ M_{pl} &= \frac{72+83+85+90+100+100+100+85+89+106+92}{11} \\ M_{pl} &= \frac{1002}{11} = 91.09 \\ \textbf{Item\ 2} \\ M_{pl} &= \frac{total\ score\ of\ students'\ score\ that\ true\ item\ answer}{n2} \\ M_{pl} &= \frac{54+83+85+90+37+100+100+100+85+89+106+92+96+92+46+37}{16} \\ M_{pl} &= \frac{1292}{16} = 80.75 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n3}$$

$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{pl} = \frac{1292}{16} = 80.75$$
Item 4

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n4}$$

$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 5

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n5}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 6

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n5}$$
$$M_{pl} = \frac{72+83+85+90+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 7

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n5}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

$$\begin{split} M_{pl} &= \frac{\text{total score of students' score that true item answer}}{n5} \\ M_{pl} &= \frac{72 + 83 + 85 + 90 + 100 + 100 + 100 + 85 + 89 + 106 + 92}{11} \\ M_{pl} &= \frac{1002}{11} = 91.09 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n5}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$
$$M_{pl} = \frac{1002}{11} = 91.09$$

Item 10

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n10}$$
$$M_{pl} = \frac{54+50+90+37+100+100+106+92+96+92+46+29}{16}$$

$$M_{\rm pl} = \frac{992}{13} = 76.30$$

Item 11

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n11}$$

$$M_{pl} = \frac{54+50+90+37+100+100+106+92+96+92+46+29}{13}$$

$$M_{\rm pl} = \frac{992}{13} = 76.30$$

Item 12

$$M_{pl} = \frac{\frac{\text{total score of students' score that true item answer}}{n12}}{S4+72+85+24+50+90+37+100+100+85+89+106+92+96+92+46+29}}$$

$$M_{\rm pl} = \frac{1347}{14} = 96.21$$

Item 13

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n13}$$

$$M_{pl} = \frac{54+72+83+50+90+37+100+100+100+85+89+106+96+92+46+29+37}{17}$$

$$M_{pl} = \frac{1266}{7} = 74.47$$

$$M_{\rm pl} = \frac{1266}{17} = 74.47$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n14}$$

$$M_{pl} = \frac{54+72+24+50+90+100+100+85+89+106+96+37}{12}$$

$$M_{pl} = \frac{903}{12} = 75.25$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n15}$$

$$M_{pl} = \frac{54+90+37+100+106+96}{7}$$

$$M_{pl} = \frac{483}{7} = 69$$

Item 16

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n16}$$
$$M_{pl} = \frac{54+50+90+37+100+100+85+89+106+92+96+92+46+29}{15}$$

$$M_{\rm pl} = \frac{1166}{15} = 77.7$$

Item 17

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n17}$$

$$M_{pl} = \frac{85+90+89+106}{4}$$

$$M_{pl} = \frac{370}{4} = 92.5$$

Item 18

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n18}$$
$$M_{pl} = \frac{72+85+24+50+90+100+100+100+89+106+92+92+92+46}{13}$$

$$M_{\rm pl} = \frac{1046}{13} = 80.46$$

Item 19

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n19}$$
$$M_{pl} = \frac{83+100+96}{3}$$
$$M_{pl} = \frac{279}{3} = 93$$
Item 20

$$\begin{split} M_{pl} &= \frac{total\ score\ of\ students' score\ that\ true\ item\ answer}{n20} \\ M_{pl} &= \frac{54+72+83+24+50+90+37+100+100+100+85+106}{12} \\ M_{pl} &= \frac{901}{12} = 75.08 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n21}$$

$$M_{pl} = \frac{72+83+85+24+90+100+100+89+46}{10}$$

$$M_{pl} = \frac{689}{10} = 68.9$$

Item 22

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n22}$$
$$M_{pl} = \frac{72+85+90+100+89+106+92+92+29}{10}$$

$$M_{\rm pl} = \frac{755}{10} = 75.5$$

Item 23

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n23}$$
$$M_{pl} = \frac{54+50+90+37+100+100+106+92+96+92+46+29}{13}$$

$$M_{\rm pl} = \frac{992}{13} = 76.30$$

Item 24

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n24}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 25

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n25}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

$$\begin{split} M_{pl} &= \frac{\text{total score of students' score that true itemanswer}}{n26} \\ M_{pl} &= \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19} \\ M_{pl} &= \frac{1377}{19} = 72.47 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n27}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{pl} = \frac{1002}{11} = 91.09$$

Item 28

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n28}$$
$$M_{pl} = \frac{90+37+100+106}{4}$$

$$M_{\rm pl} = \frac{333}{4} = 83.25$$

Item 29

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n29}$$
$$M_{pl} = \frac{50+37+37}{3}$$
$$M_{pl} = \frac{124}{3} = 41.3$$

Item 30

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n30}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$
$$M_{pl} = \frac{1002}{11} = 91.09$$

Item 31

$$\begin{split} M_{pl} = & \frac{total\ score\ of\ students'\ score\ that\ true\ item\ answer}{n31} \\ M_{pl} = & \frac{72 + 83 + 85 + 90 + 100 + 100 + 100 + 85 + 89 + 106 + 92}{11} \\ M_{pl} = & \frac{1002}{11} = 91.09 \end{split}$$

$$M_{pl} = \frac{\frac{1377}{19}}{\frac{1377}{19}} = 72.47$$

$$\begin{split} M_{pl} &= \frac{\text{total score of students' score that true item answer}}{n33} \\ M_{pl} &= \frac{72 + 83 + 85 + 90 + 100 + 100 + 100 + 85 + 89 + 106 + 92}{11} \\ M_{pl} &= \frac{1002}{11} = 91.09 \end{split}$$

Item 34

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n34}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 35

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n35}$$
$$M_{pl} = \frac{72+83+85+90+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 36

$$\begin{split} M_{pl} = & \frac{\text{total score of students' score that true item answer}}{n36} \\ M_{pl} = & \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19} \end{split}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

Item 37

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n37}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n38}$$
$$M_{pl} = \frac{90+37+100+106}{4}$$
$$M_{pl} = \frac{333}{4} = 83.25$$
$$\begin{split} M_{pl} = & \frac{total \, score \, of \, students' score \, that \, true \, itemanswer}{n39} \\ M_{pl} = & \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19} \\ M_{pl} = & \frac{1377}{19} = 72.47 \end{split}$$

Item 40

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n40}$$

$$M_{pl} = \frac{72+83+85+90+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 41

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n41}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 42

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n42}$$
$$M_{pl} = \frac{54+83+85+24+37+100+100+85+89+105+92+96+92+46}{15}$$

$$M_{\rm pl} = \frac{1189}{15} = 79.26$$

Item 43

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n43}$$
$$M_{pl} = \frac{54+72+83+85+90+100+100+100+85+89+106+92+96}{13}$$

$$M_{\rm pl} = \frac{1152}{13} = 88.61$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n44}$$

$$M_{pl} = \frac{54+72+83+85+90+100+100+100+85+89+106+92+96}{13}$$

$$M_{pl} = \frac{1152}{13} = 88.61$$

$$\begin{split} M_{pl} &= \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n45} \\ M_{pl} &= \frac{72 + 83 + 85 + 90 + 100 + 100 + 100 + 85 + 89 + 106 + 92}{11} \\ M_{pl} &= \frac{1002}{11} = 91.09 \\ \textbf{Item 46} \\ M_{pl} &= \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n46} \\ M_{pl} &= \frac{54 + 72 + 83 + 85 + 24 + 50 + 37 + 100 + 100 + 100 + 85 + 89 + 106 + 92 + 96 + 92 + 46 + 29 + 37}{19} \end{split}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

Item 47

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n47}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 48

$$M_{pl} = \frac{\frac{\text{total score of students' score that true itemanswer}}{n48}}{S4+72+83+85+24+50+37+100+100+85+89+106+92+96+92+46+29+37}}{19}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

Item 49

$$M_{pl} = \frac{\text{total score of students' score that true itemanswer}}{n49}$$
$$M_{pl} = \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n47}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{pl} = \frac{1002}{11} = 91.09$$

$$\begin{split} M_{pl} = & \frac{total \, score \, of \, students' score \, that \, true \, item \, answer}{n51} \\ M_{pl} = & \frac{72 + 83 + 85 + 90 + 100 + 100 + 100 + 85 + 89 + 106 + 92}{11} \\ M_{pl} = & \frac{1002}{11} = 91.09 \end{split}$$

Item 52

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n52}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 53

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n53}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 54

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n54}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 55

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n55}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n56}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{pl} = \frac{1002}{11} = 91.09$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n57}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{pl} = \frac{1002}{11} = 91.09$$

Item 58

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n58}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 59

$$M_{pl} = \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n59}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$
$$M_{pl} = \frac{1002}{11} = 91.09$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 60

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n60}$$
$$M_{pl} = \frac{54+50+90+37+100+100+100+106+92+96+92+46+29}{13}$$

$$M_{\rm pl} = \frac{992}{13} = 76.30$$

Item 61

$$\begin{split} M_{pl} &= \frac{\text{total score of students' score that true item answer}}{n61} \\ M_{pl} &= \frac{54+50+90+37+100+100+100+106+92+96+92+46+29}{13} \\ M_{pl} &= \frac{992}{13} = 76.30 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n62}$$

$$M_{pl} = \frac{54+72+85+24+50+90+37+100+100+85+89+106+92+96+92+46+29}{14}$$

$$M_{pl} = \frac{1347}{14} = 96.21$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n63}$$
$$M_{pl} = \frac{54+72+83+85+90+100+100+100+85+89+106+92+96}{13}$$

$$M_{\rm pl} = \frac{1152}{13} = 88.61$$

Item 64

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n64}$$
$$M_{pl} = \frac{54+72+85+24+50+90+37+100+100+85+89+106+92+96+92+46+29}{14}$$

$$M_{\rm pl} = \frac{1347}{14} = 96.21$$

Item 65

$$\begin{split} M_{pl} = & \frac{\text{total score of students' score that true item answer}}{n65} \\ M_{pl} = & \frac{54+90+37+100+106+96}{7} \\ M_{pl} = & \frac{483}{7} = 69 \end{split}$$

Item 66

$$\begin{split} M_{pl} &= \frac{total\ score\ of\ students'\ score\ that\ true\ item\ answer}{n66} \\ M_{pl} &= \frac{54+50+90+37+100+100+85+89+106+92+96+92+46+29}{15} \end{split}$$

$$M_{\rm pl} = \frac{1166}{15} = 77.7$$

Item 67

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n67}$$
$$M_{pl} = \frac{85+90+89+106}{4}$$
$$M_{pl} = \frac{370}{4} = 92.5$$

$$M_{pl} = \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n68}$$
$$M_{pl} = \frac{72+85+24+50+90+100+100+100+89+106+92+92+92+46}{13}$$
$$M_{pl} = \frac{1046}{13} = 80.46$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n69}$$
$$M_{pl} = \frac{83+100+96}{3}$$
$$M_{pl} = \frac{279}{3} = 93$$
Item 70

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n70}$$
$$M_{pl} = \frac{54+72+83+24+50+90+37+100+100+85+106}{12}$$

$$M_{\rm pl} = \frac{901}{12} = 75.08$$

Item 71

$$\begin{split} M_{pl} &= \frac{\text{total score of students' score that true item answer}}{n71} \\ M_{pl} &= \frac{72 + 83 + 85 + 24 + 90 + 100 + 100 + 89 + 46}{10} \\ M_{pl} &= \frac{689}{10} = 68.9 \end{split}$$

Item 72

$$\begin{split} M_{pl} = & \frac{\text{total score of students' score that true item answer}}{n72} \\ M_{pl} = & \frac{72 + 85 + 90 + 100 + 89 + 106 + 92 + 92 + 29}{10} \\ M_{pl} = & \frac{755}{10} = 75.5 \end{split}$$

Item 73

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n73}$$
$$M_{pl} = \frac{54+50+90+37+100+100+106+92+96+92+46+29}{13}$$

$M_{\rm pl} = \frac{992}{13} = 76.30$

$$\begin{split} M_{pl} &= \frac{\text{total score of students' score that true item answer}}{n74} \\ M_{pl} &= \frac{72 + 83 + 85 + 90 + 100 + 100 + 100 + 85 + 89 + 106 + 92}{11} \\ M_{pl} &= \frac{1002}{11} = 91.09 \end{split}$$

$$M_{pl} = \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n75}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{pl} = \frac{1002}{11} = 91.09$$
Item 76
$$M_{pl} = \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n76}$$

$$M_{pl} = \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19}$$

$$M_{pl} = \frac{1377}{19} = 72.47$$
Item 77

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n77}$$

$$M_{pl} = \frac{72+83+85+90+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 78

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n78}$$
$$M_{pl} = \frac{90+37+100+106}{4}$$
$$M_{pl} = \frac{333}{4} = 83.25$$

Item 79

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n79}$$
$$M_{pl} = \frac{50+37+37}{3}$$
$$M_{pl} = \frac{124}{3} = 41.3$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n80}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$
$$M_{pl} = \frac{1002}{11} = 91.09$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n81}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{pl} = \frac{1002}{11} = 91.09$$

Item 82

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n82}$$
$$M_{pl} = \frac{54+72+83+85+24+50+37+100+100+85+89+106+92+96+92+46+29+37}{19}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

Item 83

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n83}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 84

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n84}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 85

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n85}$$
$$M_{pl} = \frac{72+83+85+90+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

$$\begin{split} M_{pl} &= \frac{\text{total score of students' score that true item answer}}{\text{n86}} \\ M_{pl} &= \frac{54+72+83+85+24+50+37+100+100+85+89+106+92+96+92+46+29+37}{19} \\ M_{pl} &= \frac{1377}{19} = 72.47 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n87}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$
$$M_{pl} = \frac{1002}{11} = 91.09$$

Item 88

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n88}$$
$$M_{pl} = \frac{90+37+100+106}{4}$$

$$M_{\rm pl} = \frac{333}{4} = 83.25$$

Item 89

$$M_{pl} = \frac{\text{total score of students' score that true itemanswer}}{n89}$$
$$M_{pl} = \frac{54+72+83+85+24+50+37+100+100+85+89+106+92+96+92+46+29+37}{19}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

Item 90

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n90}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 91

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n91}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n92}$$

$$M_{pl} = \frac{54+83+85+24+37+100+100+85+89+105+92+96+92+46}{15}$$

$$M_{pl} = \frac{1189}{15} = 79.26$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n93}$$
$$M_{pl} = \frac{54+72+83+85+90+100+100+100+85+89+106+92+96}{13}$$

$$M_{\rm pl} = \frac{1152}{13} = 88.61$$

Item 94

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n94}$$
$$M_{pl} = \frac{54+72+83+85+90+100+100+100+85+89+106+92+96}{13}$$

$$M_{\rm pl} = \frac{1152}{13} = 88.61$$

Item 95

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n95}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 96

$$\begin{split} M_{pl} = & \frac{total\ score\ of\ students'\ score\ that\ true\ itemanswer}{n96} \\ M_{pl} = & \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19} \end{split}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

Item 97

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n97}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

$$\begin{split} M_{pl} &= \frac{total\ score\ of\ students'\ score\ that\ true\ itemanswer}{n98} \\ M_{pl} &= \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19} \\ M_{pl} &= \frac{1377}{19} = 72.47 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true itemanswer}}{n99}$$
$$M_{pl} = \frac{54+72+83+85+24+50+37+100+100+100+85+89+106+92+96+92+46+29+37}{19}$$

$$M_{\rm pl} = \frac{1377}{19} = 72.47$$

Item 100

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n100}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 101

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n101}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 102

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n102}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

Item 103

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n103}$$
$$M_{pl} = \frac{54+83+85+90+37+100+100+85+89+106+92+96+92+46+37}{16}$$

$$M_{\rm pl} = \frac{1292}{16} = 80.75$$

$$\begin{split} M_{pl} &= \frac{total\ score\ of\ students'\ score\ that\ true\ item\ answer}{n104} \\ M_{pl} &= \frac{54 + 83 + 85 + 90 + 37 + 100 + 100 + 100 + 85 + 89 + 106 + 92 + 96 + 92 + 46 + 37}{16} \\ M_{pl} &= \frac{1292}{16} = 80.75 \end{split}$$

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n105}$$

$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{pl} = \frac{1002}{11} = 91.09$$

Item 106

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n106}$$
$$M_{pl} = \frac{72+83+85+90+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 107

$$M_{pl} = \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n107}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 108

$$M_{pl} = \frac{total \ score \ of \ students' \ score \ that \ true \ item \ answer}{n108}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$

$$M_{\rm pl} = \frac{1002}{11} = 91.09$$

Item 109

$$M_{pl} = \frac{\text{total score of students' score that true item answer}}{n109}$$
$$M_{pl} = \frac{72+83+85+90+100+100+100+85+89+106+92}{11}$$
$$M_{pl} = \frac{1002}{11} = 91.09$$

$$M_{pl} = \frac{\text{total score of students'score that true item answer}}{n110}$$
$$M_{pl} = \frac{54+50+90+37+100+100+100+106+92+96+92+46+29}{13}$$
$$M_{pl} = \frac{992}{13} = 76.30$$

4. Calculation of the formulation $\mathbf{r}_{\text{pbi}} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$

Item 1

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 2

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

$$r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$$

$$r_{pbi} = \frac{7.4}{26.46} \sqrt{4}$$

$$r_{pbi} = 0.277 \times 2 = 0.555$$

Item 3

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

$$r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$$

$$r_{pbi} = \frac{7.4}{26.46} \sqrt{4}$$

$$r_{pbi} = 0.277 \text{ x } 2 = 0.555$$

Item 4

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

$$r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$$

$$r_{pbi} = \frac{7.4}{26.46} \sqrt{4}$$

$$r_{pbi} = 0.16 \text{ x } 2 = 0.32$$

Item 5

$$r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{\rm pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$
Item 6
$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$

$$r_{pbi} = \frac{91.09-73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$
Item 7
$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$

$$r_{pbi} = \frac{91.09-73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$
Item 8
$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$

$$r_{pbi} = \frac{91.09-73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$
Item 9
$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{\text{pbi}} = \frac{17.74}{26.46} \sqrt{1.75}$$

r_{\text{pbi}} = 0.670 x 1.32 = 0.88

 $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$

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

$$r_{pbi} = \frac{76.30 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$$

$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

$$r_{pbi} = 0.111 \times 1.36 = 0.150$$

Item 11

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

$$r_{pbi} = \frac{76.30 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$$

$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

$$r_{pbi} = 0.111 \times 1.36 = 0.150$$

Item 12

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

$$r_{pbi} = \frac{96.21 - 73.35}{26.46} \sqrt{\frac{0.9}{0.1}}$$

$$r_{pbi} = \frac{22.86}{26.46} \sqrt{9}$$

$$r_{pbi} = 0.863 \times 3 = 2.589$$

Item 13

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

$$r_{pbi} = \frac{74.47 - 73.35}{26.46} \sqrt{\frac{0.9}{0.2}}$$

$$r_{pbi} = \frac{1.12}{26.46} \sqrt{4.5}$$

$$r_{pbi} = 0.042x \ 2.12 = 0.089$$

Item 14

$$r_{pbi} = \frac{\frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}}{r_{pbi}}$$
$$r_{pbi} = \frac{\frac{88.61 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}}{r_{pbi}} = \frac{\frac{15.26}{26.46} \sqrt{2.3}}{r_{pbi}}$$

 $r_{pbi} = 0.57 \text{ x } 1.51 = 0.870$ Item 15 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{69 - 73.35}{26.46} \sqrt{\frac{0.4}{0.6}}$ $r_{pbi} = \frac{2.60}{26.46} \sqrt{0.66}$ $r_{pbi} = 0.098 \ge 0.812 = 0.079$ Item 16 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{77.7 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{4.35}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.164 \text{ x } 1.32 = 0.216$ Item 17 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{\rm pbi} = \frac{92.5 - 73.35}{26.46} \sqrt{\frac{0.2}{0.8}}$ $r_{\rm pbi} = \frac{19.15}{26.46} \sqrt{0.25}$ $r_{pbi} = 0.723 \times 0.5 = 0.361$ Item 18 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{80.46 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{7.11}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.268 \text{ x } 1.32 = 0.354$ Item 19 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$

$$r_{\rm pbi} = \frac{93 - 73.35}{26.46} \sqrt{\frac{0.2}{0.9}}$$

$$r_{pbi} = \frac{19.65}{26.46} \sqrt{0.22}$$

$$r_{pbi} = 0.742 \text{ x } 0.469 = 0.348$$
Item 20

$$r_{pbi} = \frac{M_{p-M_t}}{p} \sqrt{\frac{p}{2}}$$

$$r_{pbi} = \frac{5D_t}{SD_t} \sqrt{q}$$

$$r_{pbi} = \frac{75.08 - 73.35}{26.46} \sqrt{\frac{0.9}{0.1}}$$

$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

$$r_{pbi} = 0.111 \times 1.36 = 0.150$$

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

$$r_{pbi} = \frac{68.9 - 73.35}{26.46} \sqrt{\frac{0.5}{0.5}}$$

$$r_{pbi} = \frac{-6.45}{26.46} \sqrt{1}$$

$$r_{pbi} = -0.243 \text{ x } 1 = -0.243$$

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{75.5 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$$
$$r_{pbi} = \frac{2.15}{26.46} \sqrt{1.85}$$

 $r_{pbi} = 0.081 \text{ x } 1.36 = 0.110$

Item 23

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

$$r_{pbi} = \frac{76.30 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$$

$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

$$r_{pbi} = 0.111 \text{ x } 1.36 = 0.150$$

Item 24

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

 $r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$ **Item 25** $r_{pbi} = \frac{M_{p-M_t}}{1000} \sqrt{\frac{p}{2000}}$

$$s_{pbi} = \frac{SD_t}{26.46} \sqrt{q}$$
$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$
$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

 $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$

Item 26

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$
$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

 r_{pbi} = -27.34 x 1.37 = -37.45

Item 27

$$r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{\rm pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

 $r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$

 $r_{pbi} = 0.670 \ x \ 1.32 = 0.884$

Item 28

$$r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{\rm pbi} = \frac{83.25 - 73.35}{26.46} \sqrt{\frac{0.2}{0.8}}$$

$$r_{pbi} = \frac{9.9}{26.46} \sqrt{0.25}$$

 $r_{pbi} {=}\; 0.374 \; x \; 0.5 {=}\; 0.187$

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

$$r_{pbi} = \frac{41.3 - 73.35}{26.46} \sqrt{\frac{0.2}{0.9}}$$

$$r_{pbi} = \frac{-32.05}{26.46} \sqrt{0.22}$$

$$r_{pbi} = -1.211 \ge 0.46 = -0.568$$

Item 30

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 31

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 32

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 33

$$r_{pbi} = \frac{\frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}}{r_{pbi}}$$
$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$
$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

 $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$ Item 34 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{7.4}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.279 \text{ x } 1.32 = 0.369$ Item 35 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$ $r_{\rm pbi} = \frac{7.4}{26.46} \sqrt{4}$ $r_{pbi} = 0.16 \text{ x } 2 = 0.32$ Item 36 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$ $r_{\rm pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$ r_{pbi} = -27.34 x 1.37 = -37.45 Item 37 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$ **Item 38** $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{83.25 - 73.35}{26.46} \sqrt{\frac{0.2}{0.8}}$

$$r_{pbi} = \frac{9.9}{26.46} \sqrt{0.25}$$

$$r_{pbi} = 0.374 \ge 0.5 = 0.187$$

Item 39

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 41

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$$
$$r_{pbi} = \frac{7.4}{26.46} \sqrt{4}$$

 $r_{pbi} = 0.279 \ x \ 2 = 0.558$

Item 42

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

$$r_{pbi} = \frac{79.26 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$$

$$r_{pbi} = \frac{5.91}{26.46} \sqrt{2.3}$$

$$r_{pbi} = 0.22 \times 1.51 = 0.336$$

Item 43

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

 $r_{pbi} = \frac{88.61 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$ $r_{pbi} = \frac{15.26}{26.46} \sqrt{2.3}$ $r_{pbi} = 0.57 \times 1.51 = 0.870$ **Item 44** $r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$

$$r_{pbi} = \frac{88.61 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$$

$$r_{\rm pbi} = \frac{15.26}{26.46} \sqrt{2.3}$$

 $r_{pbi} = 0.57 \text{ x } 1.51 = 0.870$

Item 45

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{99.06 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$$

$$r_{\rm pbi} = \frac{25.71}{26.46} \sqrt{2.3}$$

 $r_{pbi} = 0.97 \ x \ 1.51 = 1.467$

Item 46

$$r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{\rm pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

 $r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$

 r_{pbi} = -27.34 x 1.37 = -37.45

Item 47

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

$$r_{\rm pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

 r_{pbi} = 0.670 x 1.32 = 0.884

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 49

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 50

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 51

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 52

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$$
$$r_{pbi} = \frac{7.4}{26.46} \sqrt{4}$$

 $r_{pbi} = 0.279 \text{ x } 2 = 0.558$ Item 53 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$ $r_{pbi} = \frac{7.4}{26.46}\sqrt{4}$ $r_{pbi} = 0.279 \text{ x } 2 = 0.558$ Item 54 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$ $r_{pbi} = \frac{7.4}{26.46} \sqrt{4}$ r_{pbi} = 0.279 x 2 = 0.558 Item 55 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{\rm pbi} = \frac{17.74}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$ Item 56 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$ r_{pbi} = 0.670 x 1.32 = 0.884 Item 57 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$
Item 58

$$M_{p-M_t} \quad \sqrt{p}$$

$$r_{pbi} = \frac{1}{SD_t} \sqrt{\frac{1}{q}}$$

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 60

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{76.30 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$$
$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

 $r_{\text{pbi}} = 0.111 \ x \ 1.36 = 0.150$

Item 61

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{76.30 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$$
$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

 $r_{pbi} = 0.111 \ x \ 1.36 = 0.150$

Item 62

$$\mathbf{r}_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$

 $r_{pbi} = \frac{96.21 - 73.35}{26.46} \sqrt{\frac{0.9}{0.1}}$ $r_{pbi} = \frac{22.86}{26.46} \sqrt{9}$ $r_{pbi} = 0.86 \times 3 = 2.59$ **Item 63** $r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{88.61 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$ $r_{pbi} = \frac{15.26}{26.46} \sqrt{2.3}$ $r_{pbi} = 0.57 \times 1.51 = 0.870$ **Item 64** $r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{96.21 - 73.35}{26.46} \sqrt{\frac{0.9}{0.1}}$ $r_{pbi} = \frac{22.86}{26.46} \sqrt{9}$ $r_{pbi} = 0.86 \times 3 = 2.59$ **Item 65**

$$r_{\rm pbi} = \frac{\frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}}{r_{\rm pbi}}$$
$$r_{\rm pbi} = \frac{93 - 73.35}{26.46} \sqrt{\frac{0.2}{0.9}}$$

$$r_{pbi} = \frac{19.65}{26.46} \sqrt{0.22}$$

 $r_{pbi} {=}\; 0.742 \; x \; 0.469 = 0.348$

Item 66

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

$$r_{pbi} = \frac{75.08 - 73.35}{26.46} \sqrt{\frac{0.9}{0.1}}$$

$$r_{\rm pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

 r_{pbi} = 0.111 x 1.36 = 0.150

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

$$r_{pbi} = \frac{92.5 - 73.35}{26.46} \sqrt{\frac{0.2}{0.8}}$$

$$r_{pbi} = \frac{19.15}{26.46} \sqrt{0.25}$$

$$r_{pbi} = 0.723 \ge 0.361$$

Item 68

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

$$r_{pbi} = \frac{80.46 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{7.11}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.268 \times 1.32 = 0.354$$

Item 69

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

$$r_{pbi} = \frac{93 - 73.35}{26.46} \sqrt{\frac{0.2}{0.9}}$$

$$r_{pbi} = \frac{19.65}{26.46} \sqrt{0.22}$$

$$r_{pbi} = 0.742 \ge 0.469 = 0.348$$

Item 70

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

$$r_{pbi} = \frac{75.08 - 73.35}{26.46} \sqrt{\frac{0.9}{0.1}}$$

$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

$$r_{pbi} = 0.111 \text{ x } 1.36 = 0.150$$

Item 71

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{68.9 - 73.35}{26.46} \sqrt{\frac{0.5}{0.5}}$$
$$r_{pbi} = \frac{-6.45}{26.46} \sqrt{1}$$

 r_{pbi} =-0.243 x 1 = -0.243 **Item 72** $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{75.5 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$ $r_{pbi} = \frac{2.15}{26.46} \sqrt{1.85}$ $r_{pbi} = 0.081 \text{ x } 1.36 = 0.110$ Item 73 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{76.30 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$ $r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$ $r_{pbi} = 0.111 \text{ x } 1.36 = 0.150$ Item 74 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{\rm pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{\rm pbi} = \frac{17.74}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$ Item 75 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$ r_{pbi} = 0.670 x 1.32 = 0.884 Item 76 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \text{ x } 1.37 = -37.45$$

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 78

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

$$r_{pbi} = \frac{83.25 - 73.35}{26.46} \sqrt{\frac{0.2}{0.8}}$$

$$r_{pbi} = \frac{9.9}{26.46} \sqrt{0.25}$$

$$r_{pbi} = 0.374 \ge 0.5 = 0.187$$

Item 79

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{41.3 - 73.35}{26.46} \sqrt{\frac{0.2}{0.9}}$$
$$r_{pbi} = \frac{-32.05}{26.46} \sqrt{0.22}$$

 r_{pbi} = -1.211 x 0.46 = -0.568

Item 80

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 81

$$\mathbf{r}_{\mathrm{pbi}} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 82

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

 r_{pbi} = -27.34 x 1.37 = -37.45

Item 83

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{\rm pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

 $r_{pbi} {=}\; 0.670 \; x \; 1.32 = 0.884$

Item 84

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$
$$r_{pbi} = \frac{7.4}{\sqrt{1.75}} \sqrt{1.75}$$

$$r_{\rm pbi} = \frac{7.1}{26.46} \sqrt{1.75}$$

 $r_{pbi} = 0.279 \ x \ 1.32 = 0.369$

Item 85

$$r_{\rm pbi} = \frac{\frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}}{r_{\rm pbi}}$$
$$r_{\rm pbi} = \frac{\frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}}{\sqrt{\frac{1}{2}}}$$

$$r_{\rm pbi} = \frac{1}{26.46} \sqrt{4}$$

 $r_{pbi} {=}\; 0.16 \; x \; 2 {=}\; 0.32$

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 87

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 88

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

$$r_{pbi} = \frac{83.25 - 73.35}{26.46} \sqrt{\frac{0.2}{0.8}}$$

$$r_{pbi} = \frac{9.9}{26.46} \sqrt{0.25}$$

$$r_{pbi} = 0.374 \ge 0.5 = 0.187$$

Item 89

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 90

$$\begin{aligned} r_{pbi} &= \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}} \\ r_{pbi} &= \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}} \\ r_{pbi} &= \frac{17.74}{26.46} \sqrt{1.75} \end{aligned}$$

 $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$ Item 91 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$ $r_{pbi} = \frac{7.4}{26.46}\sqrt{4}$ r_{pbi} = 0.279 x 2 = 0.558 **Item 92** $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{79.26 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$ $r_{\rm pbi} = \frac{5.91}{26.46} \sqrt{2.3}$ r_{pbi} = 0.22 x 1.51 = 0.336 Item 93 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{88.61 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$ $r_{\rm pbi} = \frac{15.26}{26.46} \sqrt{2.3}$ $r_{pbi} = 0.57 \text{ x } 1.51 = 0.870$ Item 94 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{88.61 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$ $r_{pbi} = \frac{15.26}{26.46} \sqrt{2.3}$ r_{pbi} = 0.57 x 1.51 = 0.870 Item 95 $r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$ $r_{pbi} = \frac{99.06 - 73.35}{26.46} \sqrt{\frac{0.7}{0.3}}$

$$r_{pbi} = \frac{25.71}{26.46} \sqrt{2.3}$$

$$r_{pbi} = 0.97 \text{ x } 1.51 = 1.467$$

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 97

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 98

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 99

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

$$r_{pbi} = \frac{72.47 - 73.35}{26.46} \sqrt{\frac{0.95}{0.5}}$$

$$r_{pbi} = \frac{-0.88}{26.46} \sqrt{1.9}$$

$$r_{pbi} = -27.34 \times 1.37 = -37.45$$

Item 100

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

 $r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$ $r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$ $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$

Item 101

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$
$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

 $r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$

Item 102

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

$$80.75 - 73.35 \quad \boxed{0.8}$$

$$r_{\rm pbi} = \frac{30.73}{26.46} \sqrt{\frac{0.3}{0.2}}$$

$$r_{\rm pbi} = \frac{7.4}{26.46}\sqrt{4}$$

 $r_{pbi} {=}\; 0.279 \; x \; 2 {=}\; 0.558$

Item 103

$$r_{\rm pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{\rm pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$$

$$r_{pbi} = \frac{7.4}{26.46} \sqrt{4}$$

 r_{pbi} = 0.279 x 2 = 0.558

Item 104

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

$$r_{\rm pbi} = \frac{80.75 - 73.35}{26.46} \sqrt{\frac{0.8}{0.2}}$$

$$r_{pbi} = \frac{7.4}{26.46}\sqrt{4}$$

 r_{pbi} = 0.279 x 2 = 0.558

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 106

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 107

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 108

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$$r_{pbi} = 0.670 \text{ x } 1.32 = 0.884$$

Item 109

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

$$r_{pbi} = \frac{91.09 - 73.35}{26.46} \sqrt{\frac{0.7}{0.4}}$$

$$r_{pbi} = \frac{17.74}{26.46} \sqrt{1.75}$$

$r_{pbi} {=}\; 0.670 \; x \; 1.32 = 0.884$

$$r_{pbi} = \frac{M_{p-M_t}}{SD_t} \sqrt{\frac{p}{q}}$$
$$r_{pbi} = \frac{76.30 - 73.35}{26.46} \sqrt{\frac{0.65}{0.35}}$$
$$r_{pbi} = \frac{2.95}{26.46} \sqrt{1.85}$$

$$r_{pbi} = 0.111 \text{ x } 1.36 = 0.150$$

Table Validity of Adjective Test

No	M _p	M _t	SDt	Р	Q	$r_{\text{pbi}=\frac{M_{\text{p}-M_{\text{t}}}}{\text{SD}_{\text{t}}}}\sqrt{\frac{p}{q}} \frac{r_{t} \text{ on 5\%}}{\text{significant}}$		Interpretation
1	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
2	80.75	73.35	26.46	0.8	0.2	0.555	0.468	Valid
3	80.75	73.35	26.46	0.8	0.2	0.555	0.468	Valid
4	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
5	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
6	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
7	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
8	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
9	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
10	80.75	73.35	26.46	0.8	0.2	0.555	0.468	Valid
11	80.75	73.35	26.46	0.8	0.2	0.555	0.468	Valid
12	96.21	73.35	26.46	0.9	0.1	2.589	0.468	Valid
13	74.47	73.35	26.46	0.9	0.2	0.089	0.468	Invalid
14	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
15	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
16	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
17	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
18	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
19	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
20	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
21	68.9	73.35	26.46	0.5	0.5	-0.243	0.468	Invalid
22	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
23	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
24	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
25	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
26	72.47	73.35	26.46	0.95	0.5	-37.45	0.468	Invalid
27	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
28	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
29	41.3	73.35	26.46	0.2	0.9	-0.568	0.468	Invalid
30	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
31	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
32	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
33	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
34	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
35	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
36	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
37	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
38	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
39	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
40	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
41	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
42	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
43	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid

44	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
45	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
46	72.47	73.35	26.46	0.95	0.5	-37.45	0.468	Invalid
47	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
48	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
49	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
50	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
51	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
52	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
53	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
54	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
55	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
56	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
57	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
58	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
59	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
60	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
61	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
62	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
63	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
64	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
65	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
66	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
67	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
68	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
69	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
70	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
71	68.9	73.35	26.46	0.5	0.5	-0.243	0.468	Invalid
72	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
73	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
74	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
75	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
76	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
77	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
78	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
79	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
80	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
81	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
82	72.47	73.35	26.46	0.95	0.5	-37.45	0.468	Invalid
83	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
84	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
85	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
86	72.47	73.35	26.46	0.95	0.5	-37.45	0.468	Invalid
87	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
88	96.21	73.35	26.46	0.9	0.1	2.59	0.468	Valid
89	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
90	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
91	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid

F				1				
92	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
93	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
94	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
95	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
96	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
97	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
98	88.61	73.35	26.46	0.7	0.3	0.870	0.468	Valid
99	72.47	73.35	26.46	0.95	0.5	-37.45	0.468	Invalid
100	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
101	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
102	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
103	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
104	80.75	73.35	26.46	0.8	0.2	0.558	0.468	Valid
105	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
106	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
107	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
108	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
109	91.09	73.35	26.46	0.7	0.4	0.884	0.468	Valid
110	76.30	73.35	26.46	0.65	0.35	0.150	0.468	Invalid

From the table above, it can be seen that 10 items was invalid and 100 items was valid. So, the researcher took 100 items for Adjective test.

Reliability of Adjective Test

To get reliability of the test, the researcher uses formula KR-20:

$$R_{11} = \left(\frac{n}{n-1}\right) \left(\frac{s_{t^2} - \sum pq}{s_{t^2}}\right)$$

$$N= 20$$

$$\sum Xt = 1467$$

$$\sum Xt^2 = 121611$$

$$\sum pq = 20$$

$$S_t^2 = \sum Xt^2 - \left(\frac{\sum xt}{N}\right)^2$$

$$= 121611 - \left(\frac{1467}{20}\right)^2 = 121611 - 73.35^2 = 121611 - 5380.22 = 116230.78$$

$$S_t^2 = \frac{\sum Xt2}{N} = \frac{116230.78}{20}$$

$$S_t^2 = 5811.53$$

$$R_{11} = \left(\frac{n}{n-1}\right) \left(\frac{s_{t^2} - \sum pq}{s_{t^2}}\right)$$

$$R_{11} = \left(\frac{20}{20-1}\right) \left(\frac{5811.53 - 20}{5811.53}\right) = \left(\frac{20}{19}\right) \left(\frac{5791.53}{5811.53}\right)$$

$$= (1.052) (0.99)$$

$$= 1.04 (r_{11} > 0.70 = reliable)$$

Test is reliable if r_{count} > r_{table} . Based on calculation above, the test have very high reliable.

NO	NAME	STUDENTS SCORE
1	AP	74
2	AR	80
3	ATP	75
4	AP	86
5	AA	88
6	AP	87
7	DR	92
8	FA	78
9	DA	82
10	HM	89
11	IM	85
12	IVN	88
13	LP	93
14	MS	85
15	RM	77
16	RS	88
17	RH	79
18	SA	83
19	SS	91
20	SA	87
21	UL	81
22	WH	86
23	WA	83
24	WA	78
25	RR	94
26	AY	82
27	AR	84
28	DI	94
29	DG	90
30	DZP	79
31	FS	85
32	HR	92
33	IR	81
34	ISB	91
35	IFY	84
36	IM	89
37	КН	78
38	LW	87
39	LW	82
40	MR	86
41	MAS	83
42	MRM	90
43	RR	80
44	RA	74

THE RESULT OF STUDENTS ADJECTIVE MASTERY

45	RF	83
46	SH	80
47	SIH	86
48	TRI	89
49	WS	85
50	AF	81
51	AP	87
52	AA	85
53	DJ	78
54	DDF	87
55	FIA	85
56	FAS	90
57	FD	88
58	JF	84
59	LA	93
60	MY	76
61	NA	91
62	NF	84
63	NR	86
64	RMT	94
65	RM	83
66	RA	79
67	RT	94
68	SI	84
69	SH	91
70	WA	80
	TOTAL	5943

THE RESULT OF STUDENTS WRITING DESCRIPTIVE TEXT MASTERY

NO	NAME	STUDENTS SCORE
1	AP	68
2	AR	72
3	ATP	80
4	AP	85
5	AA	77
6	AP	84
7	DR	88
8	FA	78
9	DA	71
10	HM	84
11	IM	83
12	IVN	79
13	LP	75
14	MS	86
15	RM	81
16	RS	78
17	RH	84
18	SA	69
19	SS	85
20	SA	79
21	UL	76
22	WH	78
23	WA	72
24	WA	77
25	RR	70
26	AY	81
27	AR	76
28	DI	84
29	DG	80
30	DZP	88
31	FS	82
32	HR	69
33	IR	85
34	ISB	72
35	IFY	75
36	IM	80
37	КН	76
38	LW	79
39	LW	73
40	MR	87
41	MAS	75
42	MRM	83
43	RR	71
44	RA	79

45	RF	68
46	SH	77
47	SIH	80
48	TRI	85
49	WS	82
50	AF	88
51	AP	71
52	AA	87
53	DJ	80
54	DDF	86
55	FIA	76
56	FAS	74
57	FD	83
58	JF	86
59	LA	73
60	MY	85
61	NA	68
62	NF	77
63	NR	79
64	RMT	82
65	RM	75
66	RA	84
67	RT	76
68	SI	79
69	SH	70
70	WA	77
	TOTAL	5502

NO	NAME	Х	Y
1	AP	74	68
2	AR	80	72
3	ATP	75	80
4	AP	86	85
5	AA	88	77
6	AP	87	84
7	DR	92	88
8	FA	78	78
9	DA	82	71
10	HM	89	84
11	IM	85	83
12	IVN	88	79
13	LP	93	75
14	MS	85	86
15	RM	77	81
16	RS	88	78
17	RH	79	84
18	SA	83	69
19	SS	91	85
20	SA	87	79
21	UL	81	76
22	WH	86	78
23	WA	83	72
24	WA	78	77
25	RR	94	70
26	AY	82	81
27	AR	84	76
28	DI	94	84
29	DG	90	80
30	DZP	79	88
31	FS	85	82
32	HR	92	69
33	IR	81	85
34	ISB	91	72
35	IFY	84	75
36	IM	89	80
37	KH	78	76
38	LW	87	79
39	LW	82	73
40	MR	86	87
41	MAS	83	75
42	MRM	90	83
43	RR	80	71
44	RA	74	79

THE RESULT OF VARIABLE X AND VARIABLE Y

45	RF	83	68
46	SH	80	77
47	SIH	86	80
48	TRI	89	85
49	WS	85	82
50	AF	81	88
51	AP	87	71
52	AA	85	87
53	DJ	78	80
54	DDF	87	86
55	FIA	85	76
56	FAS	90	74
57	FD	88	83
58	JF	84	86
59	LA	93	73
60	MY	76	85
61	NA	91	68
62	NF	84	77
63	NR	86	79
64	RMT	94	82
65	RM	83	75
66	RA	79	84
67	RT	94	76
68	SI	84	79
69	SH	91	70
70	WA	80	77
	TOTAL	5943	5502

THE CORRELATION BETWEEN ADJECTIVE MASTERY AND WRITING DESCRIPTIVE TEXT

NO		V	NZ.	x /2	x /2	1/1/
NO	NAME	X 74	Ŷ	X ⁻	Y-	XY 5022
1	AP	/4	68	5476	4624	5032
2	AR	80	72	6400	5184	5760
3	ATP	75	80	5625	6400	6000
4	АР	86	85	7396	7225	7310
5	AA	88	77	7744	5929	6776
6	AP	87	84	7569	7056	7308
7	DR	92	88	8464	7744	8096
8	FA	78	78	6084	6084	6084
9	DA	82	71	6724	5041	5822
10	HM	89	84	7921	7056	7476
11	IM	85	83	7225	6889	7055
12	IVN	88	79	7744	6241	6952
13	LP	93	75	8649	5625	6975
14	MS	85	86	7225	7396	7310
15	RM	77	81	5929	6561	6237
16	RS	88	78	7744	6084	6864
17	RH	79	84	6241	7056	6636
18	SA	83	69	6889	4761	5727
19	SS	91	85	8281	7225	7735
20	SA	87	79	7569	6241	6873
21	UL	81	76	6561	5776	6156
22	WH	86	78	7396	6084	6708
23	WA	83	72	6889	5184	5976
24	WA	78	77	6084	5929	6006
25	RR	94	70	8836	4900	6580
26	AY	82	81	6724	6561	6642
27	AR	84	76	7056	5776	6384
28	DI	94	84	8836	7056	7896
29	DG	90	80	8100	6400	7200
30	DZP	79	88	6241	7744	6952
31	FS	85	82	7225	6724	6970
32	HR	92	69	8464	4761	6348
33	IR	81	85	6561	7225	6885
34	ISB	91	72	8281	5184	6552
35	IFY	84	75	7056	5625	6300
36	IM	89	80	7921	6400	7120
37	KH	78	76	6084	5776	5928
38	LW	87	79	7569	6241	6873
39	LW	82	73	6724	5329	5986
40	MR	86	87	7396	7569	7482
41	MAS	83	75	6880	5625	6225
42	MRM	90	83	8100	6889	7470
12	DD	80	71	6400	50/1	5680
τJ	ININ	00	/1	0400	5041	5000

44	RA	74	79	5476	6241	5846
45	RF	83	68	6889	4624	5644
46	SH	80	77	6400	5929	6160
47	SIH	86	80	7396	6400	6880
48	TRI	89	85	7921	7225	7565
49	WS	85	82	7225	6724	6970
50	AF	81	88	6561	7744	7128
51	AP	87	71	7569	5041	6177
52	AA	85	87	7225	7569	7395
53	DJ	78	80	6084	6400	6240
54	DDF	87	86	7569	7396	7482
55	FIA	85	76	7225	5776	6460
56	FAS	90	74	8100	5476	6660
57	FD	88	83	7744	6889	7304
58	JF	84	86	7056	7396	7224
59	LA	93	73	8649	5329	6789
60	MY	76	85	5776	7225	6460
61	NA	91	68	8281	4624	6188
62	NF	84	77	7056	5929	6468
63	NR	86	79	7396	6241	6794
64	RMT	94	82	8836	6724	7708
65	RM	83	75	6889	5625	6225
66	RA	79	84	6241	7056	6636
67	RT	94	76	8836	5776	7144
68	SI	84	79	7056	6241	6636
69	SH	91	70	8281	4900	6370
70	WA	80	77	6400	5929	6160
	TOTAL	∑X=5943	∑Y=5502	$\Sigma \overline{X^{2=}506429}$	$\Sigma Y^2 = 434650$	$\sum XY = 467060$
VARIABLE X (ADJECTIVE MASTERY)

1. Maximal and minimum score of students were gotten from by setting the variable score from the low to the high score:

74	74	75	76	77	78	78	78	78	79
79	79	80	80	80	80	81	81	81	82
82	82	83	83	83	83	83	84	84	84
84	84	85	85	85	85	85	85	86	86
86	86	86	87	87	87	87	87	88	88
88	88	89	89	89	90	90	90	91	91
91	91	92	92	93	93	94	94	94	94

- 2. High = 94
- 3. Low = 72
- 4. Range = High Low

= 94 - 72 = 22

5. Total of Classes $= 1 + 3,3 \log(n)$

$$= 1 + 3,3 \log (70)$$
$$= 1 + 3,3 (1.84)$$
$$= 1 + 6,072$$
$$= 7.072$$
$$= 7$$

6. Interval (i) $=\frac{range}{many class} = \frac{22}{7} = 3$

NO	Interval Class	F	Х	FX	F _{kb}	F _{ka}
1	74 - 76	4	75	300	70=N	4
2	77 – 79	8	78	620	66	12
3	80 - 82	10	81	972	58	22
4	83 - 85	16	84	1344	48	38
5	86 - 88	14	87	1218	32	52
6	89 - 91	10	90	900	18	62
7	92-94	8	93	744	8	70=N
	TOTAL	70		6098		

7. Mean Score

$$X = \frac{\sum FX}{F}$$
$$= \frac{\frac{6098}{70}}{= 87.11}$$

8. Median

NO	Interval Class	F	Х	FX	F _{kb}	F _{ka}
1	74 - 76	4	75	300	70=N	4
2	77 – 79	8	78	620	66	12
3	80 - 82	10	81	972	58	22
4	83 - 85	16	84	1344	48	38
5	86 - 88	14	87	1218	32	52
6	89 - 91	10	90	900	18	62
7	92-94	8	93	744	8	70=N
TOTAL		70		6098		

$$M_{e} = \ell + \frac{\frac{1}{2}n - fkb}{fi} \times i$$

$$\ell = 87.11$$
fi = 16
i = 3
F_{kb} = 48
1/2n = 35

$$M_{e} = \ell + \frac{\frac{1}{2}n - fkb}{fi} \times i$$

$$M_{e} = \frac{82.5 + \frac{35 - 48}{16} \times 3}{16} \times 3$$

$$= \frac{82.5 + \frac{-13}{16} \times 3}{16} \times 3$$

$$= 82.5 + 2.43$$

$$= 84.93$$

9. Modus

NO	Interval Class	F	X	FX	F _{kb}	F _{ka}
1	74 – 76	4	75	300	70=N	4
2	77 – 79	8	78	620	66	12
3	80 - 82	10	81	972	58	22
4	83 - 85	16	84	1344	48	38
5	86 - 88	14	87	1218	32	52
6	89 - 91	10	90	900	18	62
7	92-94	8	93	744	8	70=N
	TOTAL	70		6098		

$$M_{o} = \ell + \frac{fa}{fa+fb} \times i$$

$$\ell = 82.5$$

$$fa = 10$$

$$i = 3$$

$$fb = 14$$

$$M_{o} = \ell + \frac{fa}{fa+fb} \times i$$

$$= 82.5 + \frac{10}{24} \times 3$$

$$= 82.5 + 1.25$$

$$= 83.75$$

VARIABLE Y (WRITING DESCRIPTIVE TEXT MASTERY)

1. Maximal and minimum score of students were gotten from by setting the variable score from the low to the high score:

68	68	68	69	69	70	70	71	71	71
72	72	72	73	73	74	75	75	75	75
76	76	76	76	76	77	77	77	77	77
78	78	78	79	79	79	79	79	79	80
80	80	80	81	81	81	82	82	82	83
83	83	84	84	84	84	84	85	85	85
85	85	86	86	86	87	87	88	88	88

- 2. High = 88
- 3. Low = 68
- 4. Range = High Low

= 88 - 68 = 20

5. Total of Classes $= 1 + 3,3 \log(n)$

$$= 1 + 3,3 \log (70)$$
$$= 1 + 3,3 (1.84)$$
$$= 1 + 6,072$$
$$= 7.072$$
$$= 7$$

6. Interval (i) $=\frac{range}{many \ class} = \frac{20}{7} = 2.85 = 3$

NO	Interval Class	F	Х	FX	F _{kb}	F _{ka}
1	68 - 70	7	69	483	70=N	7
2	71 – 73	8	72	576	63	15
3	74 - 76	10	75	750	55	25
4	77 – 79	14	78	1092	45	39
5	80 - 82	10	81	810	31	49
6	83 - 85	13	84	1092	21	62
7	86 - 88	8	87	692	8	70=N
	TOTAL	70		5495		

7. Mean Score

$$X = \frac{\sum FX}{F}$$
$$= \frac{5495}{70}$$
$$= 78.5$$

8. Median

NO	Interval Class	F	Х	FX	F _{kb}	F _{ka}
1	68 - 70	7	69	483	70=N	7
2	71 – 73	8	72	576	63	15
3	74 – 76	10	75	750	55	25
4	77 – 79	14	78	1092	45	39
5	80 - 82	10	81	810	31	49
6	83 - 85	13	84	1092	21	62
7	86 - 88	8	87	692	8	70=N
TOTAL		70		5495		

$$M_{e} = \ell + \frac{\frac{1}{2}n - fkb}{fi} \times i$$

$$\ell = 78.5$$
fi = 14
i = 3
F_{kb} = 45
1/2n = 35
$$M_{e} = \ell + \frac{\frac{1}{2}n - fkb}{fi} \times i$$

$$M_{e} = 78.5 + \frac{35 - 45}{14} \times 3$$

$$= 78.5 + \frac{-10}{14} \times 3$$

$$= 78.5 + -2.14$$

$$= 76.36$$

9. Modus

NO	Interval Class	F	X	FX	F _{kb}	F _{ka}
1	68 - 70	7	69	483	70=N	7
2	71 – 73	8	72	576	63	15
3	74 - 76	10	75	750	55	25
4	77 – 79	14	78	1092	45	39
5	80 - 82	10	81	810	31	49
6	83 - 85	13	84	1092	21	62
7	86 - 88	8	87	692	8	70=N
	TOTAL	70		5495		

$$M_{o} = \ell + \frac{fa}{fa+fb} \times i$$

$$\ell = 78.5$$

$$fa = 10$$

$$i = 3$$

$$fb = 10$$

$$M_{o} = \ell + \frac{fa}{fa+fb} \times i$$

$$= 78.5 + \frac{10}{20} \times 3$$

$$= 78.5 + 1.5$$

NORMALITY TEST

RESULT OF NORMALITY DATA X

Interval Class	F	Х	x	fx	x ²	fx^2
74 – 76	4	75	3	12	9	36
77 – 79	8	78	2	16	4	32
80 - 82	10	81	1	10	1	10
83 - 85	16	84	0	0	0	0
86 - 88	14	87	-1	-14	1	14
89 - 91	10	90	-2	-20	4	40
92-94	8	93	-3	-24	9	72
<i>i</i> = 3	70	-	-	-20	-	204

$$Mx = M^{1} + i \frac{\Sigma f x^{1}}{N}$$

= 84+3 ($\frac{-20}{70}$)
= 84 + 3 (-0.28)
= 84 + (-0.84)
= 83.16

$$SD_{t} = i\sqrt{\frac{\sum fx'^{2}}{n} - \left(\frac{\sum fx'}{n}\right)^{2}}$$
$$= 3\sqrt{\frac{204}{70} - \left(\frac{-20}{70}\right)^{2}}$$
$$= 3\sqrt{2.91 - (-0.28)^{2}}$$
$$= 3\sqrt{2.91 - 0.07}$$
$$= 3\sqrt{2.84}$$
$$= 3x \ 1.68 = 5.05$$

Interval of Score	Real Upper	Z – Score	Limit of Large of the	Large of area	$\mathbf{f}_{\mathbf{h}}$	\mathbf{f}_0	<u>(f₀-f_h)</u> f _b		
	Limit		Area				-11		
74 – 76	76.5	-1.31	0.09510		-9.8	4	-0.59		
				-0.14					
77 – 79	79.5	-0.72	0.23576		-14.7	8	-0.45		
				-0.21					
80 - 82	82.5	-0.13	0.44828		18.9	10	-0.47		
				0.27					
83 - 85	85.5	0.46	0.1772		-11.9	16	0.34		
				-0.17					
86 - 88	88.5	1.05	0.3531		-6.3	14	1.22		
				-0.09					
89 - 91	91.5	1.65	0.4505		-2.1	10	3.76		
				-0.03		_			
92 - 94	94.5	2.24	0.4875		2.1	8	2.80		
, <u>, , , , , , , , , , , , , , , , , , </u>				0.03		-			
	91.5	1.65	0.4505	0.02					
	/ 1.0	1.05	0.1000						
X^2									

Table of Normality Data Test with Chi Kuadrad Formula

Based on the table above, the reseracher found that $x_{count}^2 = 6.61$ while $x_{table}^2 = 88.250$, cause $x_{count}^2 < x_{table}^2$ (6.61<88.250) with degree of freedom (dk) = 70-2 = 68 and significant level $\alpha = 5\%$. So distribution of data X (Adjective Mastery) is normal.

NORMALITY TEST

RESULT OF NORMALITY DATA Y

Interval Class	F	Х	x	fx	x ²	fx^2
68 - 70	7	69	3	21	9	63
71 – 73	8	72	2	16	4	32
74 – 76	10	75	1	10	1	10
77 – 79	14	78	0	0	0	0
80 - 82	10	81	-1	-10	1	10
83 - 85	13	84	-2	-26	4	52
86 - 88	8	87	-3	-24	9	72
i= 3	70			-13		239

$$Mx = M^{1} + i \frac{\Sigma f x^{1}}{N}$$

= 78 + 3 ($\frac{-13}{70}$)
= 78 + 3 (-0.18)
= 78 + (-0.54)
= 77.46

$$SD_{t} = i\sqrt{\frac{\sum fxr^{2}}{n} - \left(\frac{\sum fxr}{n}\right)^{2}}$$
$$= 3\sqrt{\frac{239}{70} - \left(\frac{-13}{70}\right)^{2}}$$
$$= 3\sqrt{3.41 - (-0.18)^{2}}$$
$$= 3\sqrt{3.41 - (0.03)}$$
$$= 3\sqrt{3.38}$$
$$= 3x \ 1.83$$
$$= 5.49$$

Interval of Score	Real Upper Limit	Z – Score	Limit of Large of the Area	Large of area	f_h	f_0	$\frac{(f_0-f_h)}{f_h}$
68 - 70	70.5	-1.26	0.10383	-0.13	-9.1	7	-0.23
71 – 73	73.5	-0.72	0.23576	-0.19	-13.3	8	-0.39
74 – 76	76.5	-0.17	0.43251	0.28	19.6	10	-0.48
77 – 79	79.5	0.37	0.1443	-0.28	-19.6	14	-0.28
80-82	82.5	1.46	0.4279	0.20	0	10	0
83 - 85	85.5	1.46	0.4279	0.04	-2.8	13	3.64
86 - 88	88.5	2.01	0.4778	-0.04	2.8	8	1.85
	85.5	1.46	0.4279	0.04			
						\mathbf{X}^2	4.11

Table of Normality Data Test with Chi Kuadrad Formula

Based on the table above, the reseracher found that $x_{count}^2 = 4.11$ while $x_{table}^2 = 88.250$, cause $x_{count}^2 < x_{table}^2$ (4.11<88.250) with degree of freedom (dk) = 70-2 = 68 and significant level $\alpha = 5\%$. So distribution of data Y (Writing Descriptive Text Mastery) is normal.

TABLE

STATISTICAL ANALYSIS OF DATA

NO	NAME	X	Y	X^2	Y^2	XY
1	AP	74	68	5476	4624	5032
2	AR	80	72	6400	5184	5760
3	ATP	75	80	5625	6400	6000
4	AP	86	85	7396	7225	7310
5	AA	88	77	7744	5929	6776
6	AP	87	84	7569	7056	7308
7	DR	92	88	8464	7744	8096
8	FA	78	78	6084	6084	6084
9	DA	82	71	6724	5041	5822
10	HM	89	84	7921	7056	7476
11	IM	85	83	7225	6889	7055
12	IVN	88	79	7744	6241	6952
13	LP	93	75	8649	5625	6975
14	MS	85	86	7225	7396	7310
15	RM	77	81	5929	6561	6237
16	RS	88	78	7744	6084	6864
17	RH	79	84	6241	7056	6636
18	SA	83	69	6889	4761	5727
19	SS	91	85	8281	7225	7735
20	SA	87	79	7569	6241	6873
21	UL	81	76	6561	5776	6156
22	WH	86	78	7396	6084	6708
23	WA	83	72	6889	5184	5976
24	WA	78	77	6084	5929	6006
25	RR	94	70	8836	4900	6580
26	AY	82	81	6724	6561	6642
27	AR	84	76	7056	5776	6384
28	DI	94	84	8836	7056	7896
29	DG	90	80	8100	6400	7200
30	DZP	79	88	6241	7744	6952
31	FS	85	82	7225	6724	6970
32	HR	92	69	8464	4761	6348
33	IR	81	85	6561	7225	6885
34	ISB	91	72	8281	5184	6552
35	IFY	84	75	7056	5625	6300
36	IM	89	80	7921	6400	7120
37	KH	78	76	6084	5776	5928
38	LW	87	79	7569	6241	6873
39	LW	82	73	6724	5329	5986
40	MR	86	87	7396	7569	7482

41	ΜΑς	83	75	6880	5625	6225
41	MAS	<u> </u>	73	0009	5025	0223
42	MRM	90	83	8100	6889	/4/0
43	RR	80	71	6400	5041	5680
44	RA	74	79	5476	6241	5846
45	RF	83	68	6889	4624	5644
46	SH	80	77	6400	5929	6160
47	SIH	86	80	7396	6400	6880
48	TRI	89	85	7921	7225	7565
49	WS	85	82	7225	6724	6970
50	AF	81	88	6561	7744	7128
51	AP	87	71	7569	5041	6177
52	AA	85	87	7225	7569	7395
53	DJ	78	80	6084	6400	6240
54	DDF	87	86	7569	7396	7482
55	FIA	85	76	7225	5776	6460
56	FAS	90	74	8100	5476	6660
57	FD	88	83	7744	6889	7304
58	JF	84	86	7056	7396	7224
59	LA	93	73	8649	5329	6789
60	MY	76	85	5776	7225	6460
61	NA	91	68	8281	4624	6188
62	NF	84	77	7056	5929	6468
63	NR	86	79	7396	6241	6794
64	RMT	94	82	8836	6724	7708
65	RM	83	75	6889	5625	6225
66	RA	79	84	6241	7056	6636
67	RT	94	76	8836	5776	7144
68	SI	84	79	7056	6241	6636
69	SH	91	70	8281	4900	6370
70	WA	80	77	6400	5929	6160
	TOTAL	∑X=5943	∑Y=5502	$\sum X^{2=}506429$	$\Sigma Y^2 = 434650$	∑XY= 467060

The result was used to calculated the value of correlation between variable X and Y. This is the calculation of $r_{xy:}$

$$\begin{split} \Gamma_{Xy} &= \frac{N\Sigma XY - (\Sigma X)(\Sigma Y)}{\sqrt{[N.\Sigma X^2 - (\Sigma X^2)][N.\Sigma Y^2 - (\Sigma Y)^2]}} \\ &= \frac{70(467060) - (5943)(5502)}{\sqrt{[70.506429 - (506429)2][70.434650 - (434650]2}} \\ &= \frac{32694200 - 32698386}{\sqrt{[35450030 - 256470332041][30425500 - 188920622500]}} \\ &= \frac{4186}{\sqrt{256343882011}[-188890197000]} \\ &= \frac{25643488}{\sqrt{5040}} \\ &= \frac{33741676}{48442084} \end{split}$$

= 0.69

Appendix 17

HOMOGENEITY TEST

$$\mathbf{S}^{2} = \frac{n\Sigma xi^{2} - (\Sigma xi)}{n(n-1)}$$

Hypotheses: $S^2 = S^2$

$$\mathbf{H}_0 \qquad : \, \delta_1^2 = \delta_2^2$$

$$\mathbf{H}_1 \qquad : \, \delta_1^2 \neq \delta_2^2$$

A. Variant of data X

NO	Xi	Xi ²
1	74	5476
2	74	5476
3	75	5625
4	76	5776
5	77	5929
6	78	6084
7	78	6084
8	78	6084
9	78	6084
10	79	6241
11	79	6241
12	79	6241
13	80	6400
14	80	6400
15	80	6400
16	80	6400
17	81	6561
18	81	6561
19	81	6561
20	82	6724
21	82	6724
22	82	6724
23	83	6889
24	83	6889
25	83	6889
26	83	6889
27	83	6889
28	84	7056
29	84	7056
30	84	7056
31	84	7056
32	84	7056

33	85	7225
34	85	7225
35	85	7225
36	85	7225
37	85	7225
38	85	7225
39	86	7396
40	86	7396
41	86	7396
42	86	7396
43	86	7396
44	87	7569
45	87	7569
46	87	7569
47	87	7569
48	87	7569
49	88	7744
50	88	7744
51	88	7744
52	88	7744
53	89	7921
54	89	7921
55	89	7921
56	90	8100
57	90	8100
58	90	8100
59	91	8281
60	91	8281
61	91	8281
62	91	8281
63	92	8464
64	92	8464
65	93	8649
66	93	8649
67	94	8836
68	94	8836
69	94	8836
70	94	8836
TOTAL	5943	506429

n = 70

$$\sum xi$$
 = 5943
 $\sum_{Xi} 2 = 506429$
So:

$$S^{2} = \frac{n\Sigma xi^{2} - (\Sigma xi)}{n(n-1)}$$
$$= \frac{70(506429) - (5943)^{2}}{70(70-1)}$$
$$= \frac{305450030 - 35319249}{70(69)}$$
$$= \frac{270130781}{4830}$$
$$= 55.92$$

B. Variant of data Y

NO	Yi	Yi ²
1	68	4624
2	68	4624
3	68	4624
4	69	4761
5	69	4761
6	70	4900
7	70	4900
8	71	5041
9	71	5041
10	71	5041
11	72	5184
12	72	5184
13	72	5184
14	73	5329
15	73	5329
16	74	5476
17	75	5625
18	75	5625
19	75	5625
20	75	5625
21	76	5776
22	76	5776
23	76	5776
24	76	5776
25	76	5776
26	77	5929
27	77	5929
28	77	5929
29	77	5929
30	77	5929
31	78	6084
32	78	6084
33	78	6084
34	79	6241
35	79	6241
36	79	6241

37	79	6241
38	79	6241
39	79	6241
40	80	6400
41	80	6400
42	80	6400
43	80	6400
44	80	6400
45	81	6561
46	81	6561
47	82	6724
48	82	6724
49	82	6724
50	83	6889
51	83	6889
52	83	6889
53	84	7056
54	84	7056
55	84	7056
56	84	7056
57	84	7056
58	85	7225
59	85	7225
60	85	7225
61	85	7225
62	85	7225
63	86	7396
64	86	7396
65	86	7396
66	87	7569
67	87	7569
68	88	7744
69	88	7744
70	88	7744
TOTAL	5502	434650

n = 70

$$\sum yi$$
 = 5502
 $\sum_{yi} 2$ = 434650

So:

$$S^{2} = \frac{n\Sigma yi^{2} - (\Sigma yi)}{n(n-1)}$$
$$= \frac{70 (434650) - (5502)^{2}}{70(70-1)}$$
$$= \frac{30425500 - 30272004}{70(69)}$$

$$=\frac{153496}{4830}$$

= 31.77

The Formula was used to test the hypothesis was:

$$F = \frac{The \ Biggest \ Variant}{The \ Smallest \ Variant}$$

So:

$$F = \frac{55.92}{31.77} = 1.7$$

After doing the calculation, researcher found that $F_{count} = 1.7$. It had been compared to F_{table} with $\alpha 5\%$ and dk = (70-2= 68). From the distribution list F, researcher found that $F_{table} = 88.250$, so $F_{count} < F_{table}$ (1.7<88.250). It could be concluded that there is no difference in variant between the data X and data Y. It means that the variant is homogenous.

Dk	Significant level									
	50%	30%	20%	10%	5%	1%				
1	0,455	1,074	1,642	2,706	3,841	6,635				
2	1,386	2,408	3,219	4,605	5,991	9,210				
3	2,366	3,665	4,642	6,251	7,815	11,341				
4	3,357	4,878	5,989	7,779	9,488	13,277				
5	4,351	6,064	7,289	9,236	11,070	15,086				
6	5,348	7,231	8,558	10,645	12,592	16,812				
7	6,346	8,383	9,803	12,017	14,067	18,475				
8	7,344	9,524	11,030	13,362	15,507	20,090				
9	8,343	10,656	12,242	14,684	16,919	21,666				
10	9,342	11,781	13,442	15,987	18,307	23,209				
11	10,341	12,899	14,631	17,275	19,675	24,725				
12	11,340	14,011	15,812	18,549	21,026	26,217				
13	12,340	15,119	16,985	19,812	22,362	27,688				
14	13,339	16,222	18,151	21,064	23,685	29,141				
15	14,339	17,222	19,311	22,307	24,996	30,578				
16	15,338	18,418	20,465	23,542	26,296	32,000				
17	16,338	19,511	21,615	24,769	27,587	33,409				
18	17,338	20,601	22,760	25,989	28,869	34,805				
19	18,338	21,689	23,900	27,204	30,144	36,191				
20	19,337	22,775	25,038	28,412	31,410	37,566				
21	20,337	23,858	26,171	29,615	32,671	38,932				
22	21,337	24,939	27,301	30,813	33,924	40,289				
23	22,337	26.018	28,429	32,007	35,172	41,638				
24	23,337	27,096	29,553	33,196	35,415	42,980				
25	24,337	28,172	30,675	34,382	37,652	44,314				
26	25,336	29,246	31,795	35,563	38,885	45,642				
27	26,336	30,319	32,912	36,741	40,113	46,963				
28	27,336	31,391	34,027	37,916	41,337	48,278				
29	28,336	32,461	35,139	39,087	42,557	49,588				
30	29,336	33,530	36,250	40,256	43,773	50,892				

Chi-Square Table

Z-Table

Z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-3.9	0.00005	0.00005	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00003	0.00003
-3.8	0.00007	0.00007	0.00007	0.00006	0.00006	0.00006	0.00006	0.00005	0.00005	0.00005
-3.7	0.00011	0.00010	0.00010	0.00010	0.00009	0.00009	0.00008	0.00008	0.00008	0.00008
-3.6	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	0.00013	0.00012	0.00012	0.00011
-3.5	0.00023	0.00022	0.00022	0.00021	0.00020	0.00019	0.00019	0.00018	0.00017	0.00017
-3.4	0.00034	0.00032	0.00031	0.00030	0.00029	0.00028	0.00027	0.00026	0.00025	0.00024
-3.3	0.00048	0.00047	0.00045	0.00043	0.00042	0.00040	0.00039	0.00038	0.00036	0.00035
-3.2	0.00069	0.00066	0.00064	0.00062	0.00060	0.00058	0.00056	0.00054	0.00052	0.00050
-3.1	0.00097	0.00094	0.00090	0.00087	0.00084	0.00082	0.00079	0.00076	0.00074	0.00071
-3.0	0.00135	0.00131	0.00126	0.00122	0.00118	0.00114	0.00111	0.00107	0.00104	0.00100
-2.9	0.00187	0.00181	0.00175	0.00169	0.00164	0.00159	0.00154	0.00149	0.00144	0.00139
-2.8	0.00256	0.00248	0.00240	0.00233	0.00226	0.00219	0.00212	0.00205	0.00199	0.00193
-2.7	0.00347	0.00336	0.00326	0.00317	0.00307	0.00298	0.00289	0.00280	0.00272	0.00264
-2.6	0.00466	0.00453	0.00440	0.00427	0.00415	0.00402	0.00391	0.00379	0.03680	0.00357
-2.5	0.00621	0.00604	0.00587	0.00570	0.00554	0.00539	0.00523	0.00508	0.00494	0.00480
-2.4	0.00820	0.00798	0.00776	0.00755	0.00734	0.00714	0.00695	0.00676	0.00657	0.00639
-2.3	0.01072	0.01044	0.01017	0.00990	0.00964	0.00939	0.00914	0.00889	0.00866	0.00842
-2.2	0.01390	0.01355	0.01321	0.01287	0.01255	0.01222	0.01191	0.01160	0.01130	0.01101
-2.1	0.01786	0.01743	0.01700	0.01659	0.01618	0.01578	0.01539	0.01500	0.01463	0.01426
-2.0	0.02275	0.02222	0.02169	0.02118	0.02068	0.02018	0.01970	0.01923	0.01876	0.01831
-1.9	0.02872	0.02807	0.02743	0.02680	0.02619	0.02559	0.02500	0.02442	0.02385	0.02330
-1.8	0.03593	0.03515	0.03438	0.03362	0.03288	0.03216	0.03144	0.03074	0.03005	0.02938
-1.7	0.04457	0.04363	0.04272	0.04182	0.04093	0.04006	0.03920	0.03836	0.03754	0.03673

-1.6	0.05480	0.05370	0.05262	0.05155	0.05050	0.04947	0.04846	0.04746	0.04648	0.04551
-1.5	0.06681	0.06552	0.06426	0.06301	0.06178	0.06057	0.05938	0.05821	0.05705	0.05592
-1.4	0.08076	0.07927	0.07780	0.07636	0.07493	0.07353	0.07215	0.07078	0.06944	0.06811
-1.3	0.09680	0.09510	0.09342	0.09176	0.09012	0.08851	0.08691	0.08534	0.08379	0.08226
-1.2	0.11507	0.11314	0.11123	0.10935	0.10749	0.10565	0.10383	0.10204	0.10027	0.09853
-1.1	0.13567	0.13350	0.13136	0.12924	0.12714	0.12507	0.12302	0.12100	0.11900	0.11702
-1.0	0.15866	0.15625	0.15386	0.15151	0.14917	0.14686	0.14457	0.14231	0.14007	0.13786
-0.9	0.18406	0.18141	0.17879	0.17619	0.17361	0.17106	0.16853	0.16602	0.16354	0.16109
-0.8	0.21186	0.20897	0.20611	0.20327	0.20045	0.19766	0.19489	0.19215	0.18943	0.18673
-0.7	0.24196	0.23885	0.23576	0.23270	0.22965	0.22663	0.22363	0.22065	0.21770	0.21476
-0.6	0.27425	0.27093	0.26763	0.26435	0.26109	0.25785	0.25463	0.25143	0.24825	0.24510
-0.5	0.30854	0.30503	0.30153	0.29806	0.29460	0.29116	0.28774	0.28434	0.28096	0.27760
-0.4	0.34458	0.34090	0.33724	0.33360	0.32997	0.32636	0.32276	0.31918	0.31561	0.31207
-0.3	0.38209	0.37828	0.37448	0.37070	0.36693	0.36317	0.35942	0.35569	0.35197	0.34827
-0.2	0.42074	0.41683	0.41294	0.40905	0.40517	0.40129	0.39743	0.39358	0.38974	0.38591
-0.1	0.46017	0.45620	0.45224	0.44828	0.44433	0.44038	0.43644	0.43251	0.42858	0.42465
-0.0	0.50000	0.49601	0.49202	0.48803	0.48405	0.48006	0.47608	0.47210	0.46812	0.46414

Z-Table

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
1.8	0.4641	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
1.9	0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.4750	0.4756	0.4761	0.4767
2.0	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981

2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990
3,1	0,4990	0,4991	0,4991	0.4991	0,4992	0,4992	0,4992	0,4992	0,4993	0,4993
3,2	0,4993	0,4993	0,4994	0,4994	0,4994	0,4994	0,4994	0,4995	0,4995	0,4995
3,3	0,4995	0,4995	0,4995	0,4996	0,4996	0,4996	0,4996	0,4996	0,4997	0,4997
3,4	0,4997	0,4997	0,4997	0,4997	0,4997	0,4997	0,4997	0,4997	0,4997	0,4998
3,5	0,4998	0,4998	0,4998	0,4998	0,4998	0,4998	0,4998	0,4998	0,4998	0,4998
3,6	0,4998	0,4998	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999
3,7	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999
3,8	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999	0,4999
3,9	0,5000	0,5000	0,5000	0,5000	0,5000	0,5000	0,5000	0,5000	0,5000	0,5000

Pr	0.25	0.10	0.05	0.025	0.01	0.005	0.001
df	0.50	0.20	0.10	0.050	0.02	0.010	0.002
1	1.00000	3.07768	6.31375	12.70620	31.82052	63.65674	318.30884
2	0.81650	1.88562	2.91999	4.30265	6.96456	9.92484	22.32712
3	0.76489	1.63774	2.35336	3.18245	4.54070	5.84091	10.21453
4	0.74070	1.53321	2.13185	2.77645	3.74695	4.60409	7.17318
5	0.72669	1.47588	2.01505	2.57058	3.36493	4.03214	5.89343
6	0.71756	1.43976	1.94318	2.44691	3.14267	3.70743	5.20763
7	0.71114	1.41492	1.89458	2.36462	2.99795	3.49948	4.78529
8	0.70639	1.39682	1.85955	2.30600	2.89646	3.35539	4.50079
9	0.70272	1.38303	1.83311	2.26216	2.82144	3.24984	4.29681
10	0.69981	1.37218	1.81246	2.22814	2.76377	3.16927	4.14370
11	0.69745	1.36343	1.79588	2.20099	2.71808	3.10581	4.02470
12	0.69548	1.35622	1.78229	2.17881	2.68100	3.05454	3.92963
13	0.69383	1.35017	1.77093	2.16037	2.65031	3.01228	3.85198
14	0.69242	1.34503	1.76131	2.14479	2.62449	2.97684	3.78739
15	0.69120	1.34061	1.75305	2.13145	2.60248	2.94671	3.73283
16	0.69013	1.33676	1.74588	2.11991	2.58349	2.92078	3.68615
17	0.68920	1.33338	1.73961	2.10982	2.56693	2.89823	3.64577
18	0.68836	1.33039	1.73406	2.10092	2.55238	2.87844	3.61048
19	0.68762	1.32773	1.72913	2.09302	2.53948	2.86093	3.57940
20	0.68695	1.32534	1.72472	2.08596	2.52798	2.84534	3.55181
21	0.68635	1.32319	1.72074	2.07961	2.51765	2.83136	3.52715
22	0.68581	1.32124	1.71714	2.07387	2.50832	2.81876	3.50499
23	0.68531	1.31946	1.71387	2.06866	2.49987	2.80734	3.48496
24	0.68485	1.31784	1.71088	2.06390	2.49216	2.79694	3.46678
25	0.68443	1.31635	1.70814	2.05954	2.48511	2.78744	3.45019
26	0.68404	1.31497	1.70562	2.05553	2.47863	2.77871	3.43500
27	0.68368	1.31370	1.70329	2.05183	2.47266	2.77068	3.42103
28	0.68335	1.31253	1.70113	2.04841	2.46714	2.76326	3.40816
29	0.68304	1.31143	1.69913	2.04523	2.46202	2.75639	3.39624
30	0.68276	1.31042	1.69726	2.04227	2.45726	2.75000	3.38518
31	0.68249	1.30946	1.69552	2.03951	2.45282	2.74404	3.37490
32	0.68223	1.30857	1.69389	2.03693	2.44868	2.73848	3.36531
33	0.68200	1.30774	1.69236	2.03452	2.44479	2.73328	3.35634
34	0.68177	1.30695	1.69092	2.03224	2.44115	2.72839	3.34793
35	0.68156	1.30621	1.68957	2.03011	2.43772	2.72381	3.34005
36	0.68137	1.30551	1.68830	2.02809	2.43449	2.71948	3.33262
37	0.68118	1.30485	1.68709	2.02619	2.43145	2.71541	3.32563
38	0.68100	1.30423	1.68595	2.02439	2.42857	2.71156	3.31903
39	0.68083	1.30364	1.68488	2.02269	2.42584	2.70791	3.31279
40	0.68067	1.30308	1.68385	2.02108	2.42326	2.70446	3.30688

Percentage Points of the t Distribution

Percentage Points of the t Distribution

Pr	0.25	0.10	0.05	0.025	0.01	0.005	0.001
df	0.50	0.20	0.10	0.050	0.02	0.010	0.002
41	0.68052	1.30254	1.68288	2.01954	2.42080	2.70118	3.30127
42	0.68038	1.30204	1.68195	2.01808	2.41847	2.69807	3.29595
43	0.68024	1.30155	1.68107	2.01669	2.41625	2.69510	3.29089
44	0.68011	1.30109	1.68023	2.01537	2.41413	2.69228	3.28607
45	0.67998	1.30065	1.67943	2.01410	2.41212	2.68959	3.28148
46	0.67986	1.30023	1.67866	2.01290	2.41019	2.68701	3.27710
47	0.67975	1.29982	1.67793	2.01174	2.40835	2.68456	3.27291
48	0.67964	1.29944	1.67722	2.01063	2.40658	2.68220	3.26891
49	0.67953	1.29907	1.67655	2.00958	2.40489	2.67995	3.26508
50	0.67943	1.29871	1.67591	2.00856	2.40327	2.67779	3.26141
51	0.67933	1.29837	1.67528	2.00758	2.40172	2.67572	3.25789
52	0.67924	1.29805	1.67469	2.00665	2.40022	2.67373	3.25451
53	0.67915	1.29773	1.67412	2.00575	2.39879	2.67182	3.25127
54	0.67906	1.29743	1.67356	2.00488	2.39741	2.66998	3.24815
55	0.67898	1.29713	1.67303	2.00404	2.39608	2.66822	3.24515
56	0.67890	1.29685	1.67252	2.00324	2.39480	2.66651	3.24226
57	0.67882	1.29658	1.67203	2.00247	2.39357	2.66487	3.23948
58	0.67874	1.29632	1.67155	2.00172	2.39238	2.66329	3.23680
59	0.67867	1.29607	1.67109	2.00100	2.39123	2.66176	3.23421
60	0.67860	1.29582	1.67065	2.00030	2.39012	2.66028	3.23171
61	0.67853	1.29558	1.67022	1.99962	2.38905	2.65886	3.22930
62	0.67847	1.29536	1.66980	1.99897	2.38801	2.65748	3.22696
63	0.67840	1.29513	1.66940	1.99834	2.38701	2.65615	3.22471
64	0.67834	1.29492	1.66901	1.99773	2.38604	2.65485	3.22253
65	0.67828	1.29471	1.66864	1.99714	2.38510	2.65360	3.22041
66	0.67823	1.29451	1.66827	1.99656	2.38419	2.65239	3.21837
67	0.67817	1.29432	1.66792	1.99601	2.38330	2.65122	3.21639
68	0.67811	1.29413	1.66757	1.99547	2.38245	2.65008	3.21446
69	0.67806	1.29394	1.66724	1.99495	2.38161	2.64898	3.21260
70	0.67801	1.29376	1.66691	1.99444	2.38081	2.64790	3.21079
71	0.67796	1.29359	1.66660	1.99394	2.38002	2.64686	3.20903
72	0.67791	1.29342	1.66629	1.99346	2.37926	2.64585	3.20733
73	0.67787	1.29326	1.66600	1.99300	2.37852	2.64487	3.20567
74	0.67782	1.29310	1.66571	1.99254	2.37780	2.64391	3.20406
75	0.67778	1.29294	1.66543	1.99210	2.37710	2.64298	3.20249
76	0.67773	1.29279	1.66515	1.99167	2.37642	2.64208	3.20096
77	0.67769	1.29264	1.66488	1.99125	2.37576	2.64120	3.19948
78	0.67765	1.29250	1.66462	1.99085	2.37511	2.64034	3.19804
79	0.67761	1.29236	1.66437	1.99045	2.37448	2.63950	3.19663
80	0.67757	1.29222	1.66412	1.99006	2.37387	2.63869	3.19526
∞							

APPENDIX 21

Table

Product Moment

N	Taraf Significant		N	Taraf Significant		N	Taraf Si	gnificant
1	5%	1%	1	5%	1%	14	5%	1%
3	0,997	0,999	26	0,388	0,496	55	0,266	0,345
4	0,950	0,990	27	0,381	0,487	60	0,254	0,330
5	0,878	0,959	28	0,374	0,478	65	0,244	0,317
			29	0,367	0,470	70	0,235	0,306
			30	0,361	0,463	75	0,227	0,296
6	0,811	0,917	31	0,355	0,456	80	0,220	0,286
7	0,754	0,874	32	0,349	0,449	85	0,213	0,278
8	0,707	0,834	33	0,344	0,442	90	0,207	0,270
9	0,666	0,798	34	0,339	0,436	96	0,202	0,263
10	0,632	0,765	35	0,334	0,430	100	0,195	0,256
11	0,602	0,735	36	0,329	0,424	125	0,176	0,230
12	0,576	0,708	37	0,325	0,418	150	0,159	0,210
13	0,553	0,684	38	0,320	0,413	175	0,148	0,194
14	0,532	0,661	39	0,316	0,408	200	0,138	0,181
15	0,514	0,641	40	0,312	0,403	300	0,113	0,148
16	0,497	0,623	41	0,308	0,398	400	0,098	0,128
17	0,482	0,606	42	0,304	0,393	500	0,088	0,115

18	0,468	0,592	43	0,301	0,389			
19	0,456	0,575	44	0,297	0,384	600	0,080	0,105
20	0,444	0,561	45	0,294	0,380	700	0,074	0,097
21	0,433	0,549	46	0,291	0,376	800	0,070	0,091
22	0,423	0,537	47	0,288	0,372			
23	0,413	0,526	48	0,284	0,368	900	0,065	0,086
24	0,404	0,515	49	0,281	0,364			
25	0,396	0,505	50	0,279	0,361	1000	0,062	0,081

APPENDIX 22

TABLE

df/db	5%	1%	df/db	5%	1%
1	12,71	63,66	24	2,06	2,80
2	4,30	9,92	25	2,06	2,79
3	3,18	5,84	26	2,06	2,78
4	2,78	4,60	27	2,05	2,77
5	2,75	4,03	28	2,05	2,76
6	2,45	3,71	29	2,04	2,76
7	2,36	3,50	30	2,04	2,75
8	2,31	3,36	35	2,03	2,72
9	2,26	3,25	40	2,02	2,72
10	2,23	3,17	45	2,02	2,69
11	2,20	3,11	50	2,01	2,68
12	2,18	3,06	60	2,00	2,65
13	2,16	3,01	70	2,00	2,65
14	2,14	2,98	80	1,99	2,64
15	2,13	2,95	90	1,99	2,63
16	2,12	2,92	100	1,98	2,63
17	2,11	2,90	125	1,98	2,62
18	2,10	2,88	150	1,98	2,61

NILAI "T" UNTUK TARAF SIGNIFIKAN 5% DAN 1 %

19	2,09	2,86	200	1,97	2,60
20	2,09	2,84	300	1,97	2,59
21	2,08	2,83	400	1,97	2,59
22	2,07	2,82	500	1,96	2,59
23	2,07	2,81	1000	196	2,58

DOCUMENTATION













CURRICULUM VITAE

A. Identity

	Name	: Nur Sahara Dongoran		
	Reg.Num	: 1520 300062		
	Place/Birth	: Sipiongot/ Juli, 23 th 1996		
	Sex	: Female		
	Religion	: Islam		
	Address	: Desa Sipiongot, Kec. Dolok, Kab. Paluta		
B.	Perents			
	Father's Name	: Alm. Zakaria Dongoran		
	Mother's Name	: Maslan Hasibuan		
C.	Education background			
	1. Elementary School	: SD Negeri 100360 Sipiongot		
	2. Junior High School	: MTS Darussalam Parmeraan		
	3. Senior High School	: MA. Darussalam Parmeraan		

4. Institute : IAIN Padangsidimpuan



Lamp Perihal : 21 /In.14/E.6a/PP.00.9/11/2018

Pengesahan Judul dan Pembimbing Skripsi

Kepada Yth:

1. Dr. Fitriadi Lubis, M. Pd 2. Fitri Rayani Siregar, M. Hum

(Pembimbing I) (Pembimbing II)

15 November 2018

di -Padangsidimpuan

Assalamu'alaikum Wr. Wb.

Dengan hormat, sehubungan dengan hasil sidang bersama tim pengkaji judul skripsi jurusan Tadris Bahasa Inggris (TBI) Fakultas Tarbiyah dan Ilmu Keguruan IAIN Padangsidimpuan. Maka dengan ini kami mohon kepada Ibu agar dapat menjadi pembimbing skripsi dan melakukan penyempurnaan judul bilamana perlu untuk mahasiswa dibawah ini dengan data sebagai berikut:

Nama NIM Fak/Jurusan Judul Skripsi Nur Sahara Dongoran
1520300062
Tarbiyah dan Ilmu Keguruan/ Tadris Bahasa Inggris
The Correlation Between Adjective Mastery and

Writing Descriptive Text Mastery and Students of SMP N 11 Padangsidimpuan

Demikian disampaikan, atas kesediaan dan kerjasama yang baik dari Ibu kami ucapkan terima kasih.

Ketua Program Studi Tadris Bahasa Inggris

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Nomor : B - / 8 6/ /In.14/E.1/TL.00/11/2019 Hal : Izin Penelitian Penyelesaian Skripsi.

14 November 2019

Yth. Kepala SMP N 11 Padangsidimpuan Kota Padangsidimpuan

Dengan hormat, bersama ini kami sampaikan bahwa :

Nama	: Nur Sahara Dongoran
NIM	: 1520300062
Program Studi	: Tadris/Pendidikan Bahasa Inggris
Fakultas	: Tarbiyah dan Ilmu Keguruan
Alamat	· Sinionaot

adalah Mahasiswa Fakultas Tarbiyah dan Ilmu Keguruan IAIN Padangsidimpuan yang sedang menyelesaikan Skripsi dengan Judul "The Correlation Between Adjective Mastery and Writing Descriptive Text Mastery at Grade VII Students of SMP N 11 Padangsidimpuan".

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.

a.n. Dekan Wakil Dekan Bidang Akademik

Dr. Ahmad Nizar Rangkuti, S.Si., M.Pd. NIP. 19800413 200604 1 002

SEKOL	PEMERINTAH KOTA PADANGSIDIMPUAN DINAS PENDIDIKAN AH MENENGAH PERTAMA (SMP) NEGERI 11 Sissingamangaraja Gg. Air Bersih Sitamiang Baru Padangsidimpuan Selatan KOTA PADANGSIDIMPUAN
	SURAT KETERANGAN PENELITIAN Nomor : 423 / 109 / SMP.11/2019
Yang bertanda tangar	di bawah ini :
Nama NIP Pangkat/ Gol Jabatan Unit Kerja	: Drs.SYAMSUL BAHRI HARAHAP : 19630730 199801 1 001 : Pembina Tk I / IV-b : Kepala Sekolah : SMP Negeri 11 Padangsidimpuan
Menerangkan dengan	sebenarnya bahwa :
Nama NIM Program Studi Fakultas Alamat	: Nur Sahara Dongoran : 1520300062 : Tadris/ Pendidikan Bahasa Inggris : Tarbiyah dan Ilmu Keguruan : Sipiongot
Benar telah mengada SMP Negeri 11 Padar	akan Riset / Penelitian pada tanggal 18 Nopember s/d 20 Nopember 2019 di ngsidimpuan dengan judul
" The Correlation B Students of SMP N 1	etween Adjective Mastery and Writing Descriptive Text Mastery at Grade VII 1 Padangsidimpuan "
oradento or orad a -	

Pelaksanaan Riset ini dilaksanakan atas dasar Surat Institut Agama Islam Negeri Padangsidimpuan " Fakultas Tarbiyah dan Ilmu Keguruan "Nomor : B-/ 861 / In.14 / E.1/TL.00/11/2019 tentang pelaksanaan Riset.

Demikian Surat Keterangan ini diperbuat untuk dapat dipergunakan seperlunya.

