

TABLE OF CONTENT

APPROVAL SHEET	i
BIOGRAPHY	ii
ABSTRACT	iii
TABLE OF CONTENT	vii
LIST OF FIGURE	x
LIST OF TABEL	xi
LIST OF ATTACHMENT	xii
CHAPTER I INTRODUCTION	1
1.1. Background of The Problem	1
1.2. Problem Identification	7
1.3. Scope of Problem	7
1.4. Research Question	8
1.5. Research Purpose	8
1.6. Benefit of Research	8
1.7. Operational Definition	9
CHAPTER II THEORETICAL FRAMEWORK	10
2.1. Mathematical Communication Skills	10
2.1.1. Definition of Communication	10
2.1.2. Aspect of Communication	11
2.1.3. Definition of Mathematical Communication Skills.....	12
2.1.4. Indicator of Mathematical Communication Skills.....	14
2.2. Think Talk and Write (TTW)	15
2.2.1. Learning Model	15
2.2.2. Definition of Think Talk and Write.....	16
2.2.3. How Think Talk and Write Increase The Mathematical Communication Skills	19
2.2.4. Think Talk and Write Steps	21
2.3. Learning Media	21
2.3.1. Definition of Learning Media	21
2.3.2. Types and Function of Learning Media.....	22
2.3.3. How to use and Choose Learning Media.....	23
2.4. Research and Development	24

2.5. Student Worksheet	26
2.5.1. Definition of Student Worksheet	26
2.5.2. Objective and benefit of Student Woksheet	27
2.5.3. Elements of Student Worksheet.....	28
2.5.4. Steps in Developing the Student Worksheet	28
2.5.5. Requirements in Develop Student Worksheet.....	29
2.6. Translation Topic.....	30
2.6.1. Definition of Translation	30
2.6.2. Point Translation.....	31
2.6.3. Curve Translation	31
2.7. Student Worksheet Quality Criteria.....	32
2.7.1. The validity of Student Worksheet with Think Talk and Write Approach to Increase Student Mathematical Communication Skills	32
2.7.2. The Practicality of Student Worksheet with Think Talk and Write Approach to Increase Student Mathematical Communication Skills	34
2.7.3. The Effectiveness of Student Worksheet with Think Talk and Write Approach to Increase Student Mathematical Communication Skills	36
2.8. Relevant Research	37
2.9. Framework of Thinking	39
CHAPTER III RESEARCH METHODOLOGY.....	41
3.1. Location and Time of Research.....	41
3.2. Subject and Object of Research	41
3.3. Research Design and variable.....	41
3.3.1. Independent variable.....	42
3.3.2. Dependent variable	42
3.4. Data Collecting Technique.....	42
3.5. Research Instrument	43
3.5.1. Instrument fot Measuring Validity	43
3.5.2. Instrument fot Measuring Practicality	43
3.5.3. Instrument fot Measuring Effectiveness	43
3.6. Research Procedure.....	44
3.6.1. Analysis	44
3.6.2. Design	45

3.6.3. Develop	45
3.6.4. Implementation	46
3.6.5. Evaluation	47
3.7. Data Analysis.....	49
3.7.1. Validity Analysis	49
3.7.2. Practical Analysis	51
3.7.3. Effectiveness Analysis	52
3.7.4. Student Worksheet Success Indicator With Think Talk and Write Approach.....	55
CHAPTER IV RESULT AND DISCUSSION	56
4.1. Research Result.....	56
4.1.1. Analyze	56
4.1.2. Design	58
4.1.3. Develop.....	61
4.1.4. Implementation	69
4.1.5. Evaluation	76
4.2. Research Discussion.....	76
4.2.1. The Validity of Student Woksheet with Think Talk and Write Approach	76
4.2.2. The Practicality of Student Woksheet with Think Talk and Write Approach	77
4.2.3. The Effectiveness of Student Woksheet with Think Talk and Write Approach	78
CHAPTER V CONCLUSION AND SUGGESTION.....	84
5.1. Conclusion	84
5.2. Suggestion.....	84
BIBLIOGRAPHY	86
ATTACHMENT	90