

TABLE OF CONTENTS

APPROVAL PAGE	i
DECLARATION OF ORIGINALITY	ii
THESIS PUBLICATION APPROVAL FOR ACADEMIC PURPOSE	iii
BIOGRAPHY.....	iv
ABSTRAK.....	v
ABSTRACT	vi
PREFACE	vii
TABLE OF CONTENTS.....	ix
LIST OF FIGURES	xiii
LIST OF TABLES	xiv
LIST OF GRAPHS	xvi
LIST OF APPENDICES.....	xvii
CHAPTER I INTRODUCTION	1
1.1 Background of The Problem	1
1.2 Problem Identification	7
1.3 Problem Limitation	8
1.4 Problem Formulation	8
1.5 Research Objective	8
1.6 Research Benefit.....	9
CHAPTER II LITERATURE REVIEW	10
2.1 Mathematics	10

2.1.1	Definition of Mathematics	10
2.1.2	Mathematics Learning	11
2.1.3	Mathematics Learning Objectives	11
2.2	Mathematical Problem Solving	13
2.2.1	Definition of Ability	13
2.2.2	Definition of Problem	13
2.2.3	Definition of Problem Solving	14
2.2.4	Students' Mathematical Problem Solving Ability.....	15
2.2.5	Indicators of Mathematical Problem Solving Ability.....	16
2.3	Learning Approach	18
2.4	Realistic Approach.....	19
2.4.1	Definition of Realistic Approach.....	19
2.4.2	Characteristic of Realistic Approach	19
2.4.3	Principles of Realistic Approach	20
2.4.4	Steps of Realistic Approach	21
2.4.5	Implementation of Realistic Approach in Mathematics Learning ..	22
2.4.6	Advantages and Disadvantages of Realistic Approach	24
2.4.7	Learning Theories Relevant to Realistic Approach.....	26
2.5	Probability Material	28
2.6	Relevant Research	30
2.7	Thinking Framework	32
2.8	Hypothesis.....	34
CHAPTER III RESEARCH METHOD		35
3.1	Place and Time of Research	35
3.2	Type of Research	35
3.3	Subject and Object of Research.....	35

3.4	Operational Definitions.....	35
3.5	Research Design	36
3.5.1	Planning	37
3.5.2	Implementing.....	37
3.5.3	Observing	38
3.5.4	Evaluating	38
3.5.5	Reflecting	38
3.6	Data Collection Technique.....	39
3.6.1	Observation	39
3.6.2	Test	40
3.6.3	Documentation	41
3.7	Research Instrument	41
3.7.1	Problem Solving Ability Observation Instrument.....	41
3.7.2	Test	42
3.7.3	Research Instrument Test.....	43
3.8	Data Analysis Technique	44
3.8.1	Data Reduction	44
3.8.2	Data Display.....	44
3.8.3	Conclusion Drawing	48
CHAPTER IV RESULTS AND DISCUSSION		49
4.1	Description of Research Results.....	49
4.1.1	Description of Research Results in Cycle I.....	49
4.1.1.1.	Problem I	49
4.1.1.2.	Action Planning I	53
4.1.1.3.	Implementation of Action I	55
4.1.1.4.	Observation I.....	57

4.1.1.5.	Evaluation I.....	58
4.1.1.6.	Reflection I.....	64
4.1.2	Description of Research Results in Cycle II.....	68
4.1.2.1	Problem II.....	68
4.1.2.2	Action Planning II.....	68
4.1.2.3	Implementation of Action II.....	70
4.1.2.4	Observation II.....	72
4.1.2.5	Evaluation II.....	72
4.1.2.6	Reflection II.....	79
4.2	Discussion of Research Results.....	88
4.2.1.	Discussion of Student Answers in Cycle I.....	88
4.2.2.	Discussion of Student Answers in Cycle II.....	91
4.2.3.	Discussion.....	93
CHAPTER V CONCLUSION AND SUGGESTION.....		96
5.1	Conclusion.....	96
5.2	Suggestion.....	97
BIBLIOGRAPHY.....		99