

TABLE OF CONTENTS

	<i>Page</i>
Approval Sheet.....	i
Originality Statement Sheet	ii
Publication Approval Sheet.....	iii
BIOGRAPHY.....	iv
ABSTRACT.....	v
FOREWORD	vi
TABLE OF CONTENTS.....	ix
LIST OF TABLE	xi
LIST OF FIGURE	xii
ATTACHMENT	xiii
CHAPTER I. INTRODUCTION.....	1
1.1.Background	1
1.2.Problem Identificaion.....	4
1.3.Problem Limitation	5
1.4.Problem Formulation	5
1.5.Research Objective	5
1.6.Research benefit.....	5
1.7.Operational Defenition.....	6
CHAPTER II. LITERATURE REVIEW	7
2.1.Theoretical Framework	7
2.1.1.Definition of Learning	7
2.1.2.Mathematical Problem	8
2.1.3.Mathematical Problem Solving.....	8
2.1.4.Mathematical Problem Solving Ability	10
2.1.5.Gender Difference.....	13
2.1.6.Schoology.....	15
2.1.7.Number Pattern	17
2.2.Relevant Research	19
2.3.Conceptual Framework.....	20

CHAPTER III. RESEARCH METHODOLOGY	22
3.1.Type of Resarch	22
3.2 .Location and Time of Research	22
3.3. Subject and Object of Research.....	22
3.4. Research design	23
3.5. Data Collection Technique.....	23
3.6. Instrument Research	24
3.6.1. Test.....	24
3.6.2. Documentation	25
3.6.3. Interview.....	25
3.7. Research Procedure.....	25
3.8. Data Analysis Technique.....	28
3.8.1.Test the problem solving ability of male and female students in solving mathematical problems.....	29
3.8.2. Analysis of students' answer processes in problem solving in terms of gender differences.....	29
3.9. Validity of research.....	31
CHAPTER IV. RESULTS AND DISCUSSION	32
4.1. Male and Female Students' Problem Solving Abilities	32
4.2. Taking The Subject.....	35
4.3. Student Answer Process	35
CHAPTER V. CONCLUSIONS	54
5.1. Conclusion.....	54
5.2. Suggestion.....	56
REFERENCES.....	57

LIST OF TABLE

Table 2.1 Using Schoology for Make Online Test	15
Table 3.1. Validator Test Question.....	24
Table 4.1. Convert grades into ability categories.....	34
Table 4.2. Students' abilities based on gender on indicators of cognitive aspect mathematical problem solving.....	34
Table 4. 3. Selected subjects to interview students' problem solving abilities	35



LIST OF FIGURE

Figure 2.1. Function of Left Brain and Right Brain.....	14
Figure 3.1. Research Process Proced	26
Figure 3.2. Interactive Analysis Model of Miles and Huberman.....	27
Figure 4.1. The average value obtained per indicator is in percentage units.....	33
Figure 4.2. The test results of male students question number 1	36
Figure 4.3. Test results male students question number 2	38
Figure 4.4. The test results of male students question number 3	40
Figure 4.5. The test results of male students question number 4	39
Figure 4.6. The test results of female students question number 1	43
Figure 4.7. The test results of female students question number 2	44
Figure 4.8. The test results of female students question number 3	46
Figure 4.9. The test results of female students question number 4	47



ATTACHMENT

Attachment 1 Problem Solving Ability Test Latticework.....	61
Attachment 2 Problem Solving Ability Test Validity Sheet.....	62
Attachment 3 Problem Solving Ability Test Validity Sheet.....	66
Attachment 4 problem solving ability test.....	70
Attachment 5 Alternative Solutions Mathematics Problem Solving Ability Test.....	72
Attachment 6 Guidelines for Scoring Mathematics.....	78
Attachment 7 Problem Solving Ability Test Results.....	80
Attachment 8 Statement Letter of Skripsi Supervisor.....	81
Attachment 9 Letter of Research	82
Attachment 10 Letter of Research finished.....	83