CONTENTS

	Page
Legalization Paper	**i**
Bibliography	**ii**
Abstract	**iii**
Acknowledgement	**vi**
Contents	**v**
Figure List	**x**
Table List	**xi**
Appendix List	**xiii**
CHAPTER I INTRODUCTION	
1.1 Background	1
1.2 Identification of Problem	5
1.3 The Scope of Problem	6
1.4 Research Question	6
1.5 Research Objectives	6
1.6 Research Benefits	7
1.7 Operational Definition	7
CHAPTER II LITERATURE REVIEW	
2.1 Theoretical Framework	9
2.1.1 Cooperative Learning	9
2.1.1.1 Overview of Cooperative Learning	9
2.1.1.2 The Element and Principal in Cooperative Learning	10
2.1.1.3 Cooperative Learning Effects	10
2.1.1.4 Cooperative Learning Phases	11
2.1.1.5 Why must Cooperative Learning can be Applying in Teaching Math	12
2.1.1.6 Approaches to Cooperative Learning	13

2.1.2 Jigsaw Approach 15
2.1.2.1 The Steps of jigsaw 16
2.1.2.2 The Lesson Plan of Jigsaw Approach 17
2.1.2.3 The Advantages and Weakness of Jigsaw Approach 18
2.1.3 Think Pair Share (TPS) Approach 18
2.1.3.1 The Steps of Think Pair Share (TPS) 19
2.1.3.2 The Advantages and Weakness of Think Pair Share (TPS) Approach 20
2.1.4 Technique to Give Recognition of Group 21
2.1.5 Problem Solving Skill of Mathematics 22
2.1.5.1 Evaluation Tools for Problem Solving Skills 24
2.1.6 The Mistake in Learning Mathematic 25
2.2 Subject Matter 26
2.2.1 Prisms 26
2.2.2 Surface Area of Prisms 26
2.2.3 Volume of Prisms 27
2.3 Relevant Research 28
2.4 Conceptual Framework 29
2.4 Research Hypothesis 31

CHAPTER III RESEARCH METHODOLOGY

3.1 Research Time and Place 32
3.2 Population and Sample 32
3.2.1 Population 32
3.2.2 Sample 32
3.3 Research Variable 32
3.3.1 Independent Variable 32
3.3.2 Dependent variable 33
3.4 Research Design 33
3.5 Research Procedure 33
3.6 Instrument of Data Collecting 37

3.6.1 Kinds of Instrument 37
3.6.1.1 Skill Test 37
3.6.2 Instrument Analysis Technique 37
3.6.2.1 Validation of Instrument 37
3.6.2.2 Reliability of Instrument 38
3.7 Data Analysis Technique 39
3.7.1 Normality test 39
3.7.2 Homogeneity test 40
3.7.3 Gain score 40
3.7.4 Hypothesis testing 41
3.8 Level of Problem Solving Skill of Student in Mathematic Problem 44
3.9 Observation Result of Learning Process 45

CHAPTER IV RESULT AND DISCUSSION
4.1 The Result of Problem Solving skills 47
4.1.1 Pre test of First and Second Experment Classes 47
4.1.2 Post test of First and Second Experment Classes 48
4.1.3 Gain of First and Second Experment Classes 49
4.1.4 Normality Testing of Data 50
4.1.5 Homogeniety Testing of Data 51
4.1 6 Hypothesis Testing 52
4.1.7 Description of student mistake for solving problem in the First Experiment Class 55
4.1.8 Description of student mistake for solving problem in the Second Experiment Class 60
4.1.9 Level of Problem Solving Skill of Student in Mathematic Problem 66
4.1.10 Observation Result of Learning Process 68
4.2 Discussion 69
4.2.1 Discussion of the Result of Problem Solving Skills of Student 69
4.2.2 Discussion of Student Mistake for Solving problem 71
4.2.2.1 For the First Experiment Class using Cooperative Learning 71

Jigsaw Approach
4.2.2.2 For the Second Experiment Class using Cooperative Learning Think Pair Share approach 75
4.2.2.3 The Comparison of Student Mistake in the First and Second Experiment Classes 78

CHAPTER V CONCLUSION AND SUGGESTION
5.1 Conclusion 80
5.2 Suggestion 81

REFERENCES 82
APPENDIX 84

UNIVERSITAS NEGERI MEDAN
UNIMED
THE Character Building UNIVERSITY