

TABLE OF CONTENT

Content	Page
Sheet of Agreement	i
Biography	ii
Abstract	iii
Preface	iv
Table of Content	v
List of Table	iii
List of Figures	iv
List of Appendices	v
CHAPTER I INTRODUCTION	
1.1 Background	1
1.2 Problem Identification	7
1.3 Problem Limitation	7
1.4 Problem Formulation	7
1.5 Research Objectives	8
1.6 Research Benefits	8
1.7 Operational Definitions	8
CHAPTER II THE REVIEW OF RELATED LITERATURE	
2.1 Theoretical Framwork	9
2.1.1 Mathematics Learning	9
2.1.2 Problem Solving Ability	10
2.1.2.1 Mathematics Problem	10
2.1.2.2 Definition of Problem Solving Ability	11
2.1.2.3 Indicators of Problem Solving Ability	13
2.1.3 Problem Based Learning Model	15
2.1.3.1 Models of Teaching	15
2.1.3.2 Definition of Problem Based Learning Model	16
2.1.3.3 Characteristic of Problem Based Learning	17
2.1.3.4 Syntax of Problem Based Learning Model	21
2.1.3.5 Excess and Limitations of Problem Based Learning	21
2.1.4 Direct Instruction Model	23
2.1.4.1 Definition of Direct Instruction	23
2.1.4.2 Syntax of Direct Instruction	23
2.1.4.3 Excess and Limitation of Direct Instruction	25
2.1.5 Media GeoGebra	26
2.1.6 Flat Side Three Dimensional Object Concept	29
2.1.7 Steps Drawing Cube and Rectangular Prism with GeoGebra	31
2.1.7.1 Cube	31
2.1.7.2 Rectangular Prism	32
2.2 Relevant Research	35

2.3 Framework of Thinking	37
2.4 Hypothesis	40

CHAPTER III RESEARCH METHOD

3.1 Types and Design of Research	41
3.2 Place and Time of Research	41
3.3 Population dan Sample	41
3.4 Research Procedure	42
3.5 Research Instruments	44
3.5.1 Test of Problem Solving Ability	44
3.5.2 Validity	45
3.6 Data Analysis Techniques	46
3.6.1 Normality Test	46
3.6.2 Homogeneity Test	47
3.6.3 Hypothesis Test	48

CHAPTER IV RESULT OF RESEARCH AND DISCUSSION

4.1 Result Of Research	50
4.1.1 Result Descriptive Analysis	50
4.1.2 Student's Problem Solving Ability Based on Pretest	50
4.1.3 Student's Problem Solving Ability Based on Posttest	51
4.2 Analysis of Answers Average Results of Student Mathematical Problem Solving Ability	53
4.3 Assumption Analysis Test	54
4.3.1 Normality Test of Pretest	54
4.3.2 Variance Homogeneity Test of Pretest	54
4.3.3 Normality Test of Posttest	55
4.3.4 Variance Homogeneity Test of posttest	55
4.3.5 Hypothesis Test	56
4.4 Discussion Of Study Result	56
4.5 The Weakness of Study	58

CHAPTER V CONCLUSION AND SUGGESTIONS

5.1 Conclusion	60
5.2 Suggestion	60

REFERENCES

Appendices

61

