

TABLE OF CONTENT

| | Pages |
|--|-------|
| Validity Sheet | i |
| Biography | ii |
| Abstract | iii |
| Preface | iv |
| Table of Content | v |
| List of Tables | viii |
| List of Figures | ix |
| List of Appendices | x |
| CHAPTER I INTRODUCTION | |
| 1.1 Background | 1 |
| 1.2 Problem Identification | 7 |
| 1.3 Problem Limitation | 8 |
| 1.4 Problem Formulation | 8 |
| 1.5 Research Objectives | 8 |
| 1.6 Benefits of Research | 9 |
| 1.7 Operational Definition | 9 |
| CHAPTER II LITERATURE REVIEW | |
| 2.1 Theoretical Framework | 11 |
| 2.2 Spatial Ability | 11 |
| 2.3 Dimensions of Spatial Ability | 12 |
| 2.4 Classification of Spatial Tests | 15 |
| 2.5 Factors of Spatial Ability | 15 |
| 2.6 Mathematical Spatial Ability | 17 |
| 2.7 Cooperative Learning | 18 |
| 2.7.1 Definition of Cooperative Learning | 18 |
| 2.7.2 Main Concept of Cooperative Learning | 19 |
| 2.7.3 Syntax of Cooperative Learning | 19 |
| 2.7.4 Result of Cooperative Learning | 20 |
| 2.7.5 Cooperative Learning Numbered Head Together (NHT) Types | 21 |
| 2.7.5.1 Definition of Numbered Head Together (NHT) | 21 |
| 2.7.5.2 Syntaxes of Numbered Head Together (NHT) | 21 |
| 2.7.5.3 Advantages and Disadvantages of NHT | 22 |
| 2.7.6 Cooperative Learning Student Teams Achievement Division (STAD) | 23 |
| 2.7.6.1 Definition of Student Teams Achievement Division (STAD) | 23 |
| 2.7.6.2 Major Components in STAD | 23 |
| 2.7.6.3 Phases of STAD | 24 |
| 2.7.6.4 Advantages and Disadvantages of STAD | 27 |
| 2.8 Relevant Research | 28 |
| 2.9 Conceptual Framework | 28 |
| 2.10 Hypothesis | 30 |

CHAPTER III RESEARCH METHODOLOGY

| | |
|--|----|
| 3.1 Time and Location of Research | 31 |
| 3.2 Population and Sample | 31 |
| 3.2.1 Population of Research | 31 |
| 3.2.2 Sample of Research | 31 |
| 3.3 Variables and Instrument of Research | 31 |
| 3.3.1 Independent Variable | 31 |
| 3.3.2 Dependent Variable | 32 |
| 3.3.3 Research Instrument | 32 |
| 3.4 Design of Research | 37 |
| 3.5 Procedure of Research | 38 |
| 3.5.1 Stage Preparation | 38 |
| 3.5.2 Stage Implementation | 38 |
| 3.5.3 Stage Final | 38 |
| 3.6 Technique of Data Analysis | 40 |
| 3.6.1 Descriptive Analysis | 40 |
| 3.6.2 Analyzed Assumption Test | 40 |
| 3.6.3 Hypothesis Test | 41 |

CHAPTER IV RESULTS AND DISCUSSION

| | |
|---|----|
| 4.1 Research Result Description | 44 |
| 4.1.1 Result Description of Experiment class I and experiment class II Posttest | 44 |
| 4.1.2 The Average Analyze of Students' Mathematical Spatial Ability answer results | 46 |
| 4.1.3 The Level of Students' Mathematical Spatial Ability | 47 |
| 4.2 Analysis of Research Data | 48 |
| 4.2.1 Normality Test | 48 |
| 4.2.2 Homogeneity Test | 49 |
| 4.2.3 Hypothesis Test | 51 |
| 4.3 Research Discussion | 53 |

CHAPTER V CONCLUSION AND SUGGESTION

| | |
|----------------|----|
| 5.1 Conclusion | 56 |
| 5.2 Suggestion | 56 |

REFERENCES**Appendices**

57

61