TABLE OF CONTENTS

pag	e
COVER	
FINAL PROJECT AUTHENTICITY STATEMENT	
FINAL PROJECT SUPERVISOR'S APPROVAL FORM	
FINAL PROJECT EXAMINER PANEL'S APPROVAL FORM	
ABSTRACTi	V
ABSTRAK	V
FOREWORDv	'i
TABLE OF CONTENTSi	
LIST OF TABLESxx	
LIST OF FIGURES xxi	
LIST OF CHARTSxxii	
LIST OF APPENDICESxx	
CHAPTER I INTRODUCTION	1
1.1 Background of the Study	1
1.2 Problem Statement	5
1.3 Purpose of the Study	б
1.4 Significance of the Study	6
1.4.1 Math Teachers at the XYZ School	6
1.4.2 Parents	7
1.4.3 School	7
1.4.4 Researcher	7
1.5 Definition of Terms	

CHAP	TER	II LITERATURE REVIEW	9
	2.1	Definitions of Mathematics	9
	2.2	Mathematics Competencies	11
	2.3	Student Achievement and Low Achievement in Math	14
	2.4	The influencing factors on Student Achievement	15
		2.4.1 Students	15
		2.4.1.1 Goal Orientation Theory	16
		2.4.1.1.1 Personal Goal Orientation: Mastery Goal Orientation	117
		2.4.1.1.2Personal Goal Orientation: Performance-Approa	ach
		Goal Orientation	18
		2.4.1.1.3Personal Goal Orientation: Performance-Avoidan	nce
		Goal Orientation	19
		2.4.1.1.4Relationship among Mastery Goal Orientati	on,
		Performance-Approach Goal Orientation, a	and
		Performance-Avoidance Goal Orientation	20
		2.4.1.2 Perception of Teacher's Goals	21
		2.4.1.3 Perception of Classroom Goal Structures	22
		2.4.1.4 Academic-Related Perceptions, Beliefs, and Strategi	es.
7		23	
		2.4.1.4.1 Academic Efficacy	
		2.4.1.4.2Academic Press	24
		2.4.1.4.3 Academic Self-Handicapping Strategies	24
		2.4.1.4.4Avoiding Novelty	25
		2.4.1.4.5Cheating Behavior	26
		2.4.1.4.6Disruptive Behavior	26

	2.4.1.4.7Self-Presentation of Low Achievement	27
	2.4.1.4.8Skepticism about the Relevance of School for F	Future
	Success	27
	2.4.1.5 Perceptions of Parents	28
	2.4.2 Parents	28
	2.4.3 Teachers	30
	2.4.3.1 Perceptions of the School Goal Structure for Stud	ents
		30
	2.4.3.1.1 Mastery Goal Structure for Students	31
	2.4.3.1.2Performance Goal Structure for Students	31
	2.4.3.2 Approach to Instruction	31
	2.4.3.2.1 Mastery Approaches	31
	2.4.3.2.2Performance Approaches	32
	2.4.3.3 Personal Teaching Efficacy	32
2.5	Relation between Mathematics Achievement and the Influencing	ng
	Factors on Student Low Achievement	34
CHAPTER	III RESEARCH METHODOLOGY	35
3.1	Research Method	35
3.2	Subject, Place, and Research Time	37
3.3	Research Procedure	37
3.4	Method of Data Collection	39
	3.4.1 Records	39
	3.4.2 Questionnaire	39
	3.4.3 Interview	40
3.5	Research Instrument	40

	3.5.1 Q	uestionnaire	40
	3.5.1.2	Questionnaire for Parents (See Appendix E - 1, F -	1,
		and G - 1)	44
	3.5.1.3	Questionnaire for Teacher (See Appendix H - 1, and	d I -
		1)	44
	3.5.2 In	terview	45
	3.5.2.1	Interview Questions List for Homeroom Teacher (S	See
		Appendix J, Appendix K, and Appendix L)	45
	3.5.2.2	Interview Questions List for Math Teacher (See	
		Appendix $J-4$ for student K , $K-4$ for student N , a	and
		L – 4 for student A)	46
3.6	Triangulation	on and Data Validity	46
3.7	Data Analy	sis	47
CHAPTER	IV ANALYS	SIS AND DISCUSSION	48
4.1	Preliminary	Data	48
	4.1.1 St	udents' Math Score in Elementary School Report Car	rd
	(S	ee Appendix A – 1)	48
	4.1.2 St	udents' Math Score in 7 th Grade (See Appendix A – 2	2)
			49
4.2	Research F	ndings and Discussion	50
	4.2.1 St	udents' Findings and Discussion	50
	4.2.1.1	Findings of Student K's Goal Orientation Theory (S	
		Appendix B – 2)	51

4.2.1.1.1Personal Achievement Goal Orientations Result or
Student K
4.2.1.1.2Perception of Teacher's Goals Orientation on Student K
51
4.2.1.1.3Perception of Classroom Goal Structures in the
Classroom on Student K
4.2.1.1.4Students' Academic-Related Perceptions, Beliefs, and
Strategies Analysis on Student K
4.2.1.1.5 Student K Perception of her Parents' Goal Orientation
4.2.1.2 Discussion of Student K's Goal Orientation Theory57
4.2.1.3 Findings of Student N's Goal Orientation Theory (See
Appendix C – 2)61
4.2.1.3.1Personal Achievement Goal Orientations Result or
Student N
4.2.1.3.2Perception of Teacher's Goals Orientation on Student .
61
4.2.1.3.3Perception of Classroom Goal Structures in the
Classroom on Student N
4.2.1.3.4Students' Academic-Related Perceptions, Beliefs, and
Strategies Analysis on Student N
4.2.1.3.5 Student N Perception of her Parents' Goal Orientation
4.2.1.4 Discussion of Student N's Goal Orientation Theory67

4.2.1.5	Findings of Student A's Goal Orientation Theory (See			
	Appendix D – 2)			
4.2.1.5.1	Personal Achievement Goal Orientations Result or			
	Student A			
4.2.1.5.2	2Perception of Teacher's Goals Orientation on Student A			
	73			
4.2.1.5.3	3Perception of Goal Structures in the Classroom or			
	Student A			
4.2.1.5.4	4Students' Academic-Related Perceptions, Beliefs, and			
	Strategies Analysis on Student A			
4.2.1.5.5	Student A Perception of her Parents' Goal Orientation			
4.2.1.6	Discussion of Student A's Goal Orientation Theory78			
4.2.1.7	Overall Discussion of Student K, N, and A's Goal			
	Orientation Theory			
1.2.2 Par	rents' Findings and Discussion87			
4.2.2.1	Findings of Student K's Parents Goal Orientation (See			
	Appendix E – 2)			
4.2.2.1.1	Parents' Mastery Goal Orientation			
4.2.2.1.2	2Parents' Performance Goal Orientation			
4.2.2.2	Discussion of Student K's Parent's Goal Orientation.88			
4.2.2.3	Findings of Student N's Parent's Goal Orientation (See			
	Appendix F – 2)			
4.2.2.3.1	Parents' Mastery Goal Orientation			

4.2.2.3.2Parents' Performance Goal Orientation90)
4.2.2.4 Discussion of Student N's Parent's Goal Orientation.9	0
4.2.2.5 Findings of Student A's Parent's Goal Orientation (Sec	е
Appendix G – 2)9	1
4.2.2.5.1 Parents' Mastery Goal Orientation	1
4.2.2.5.2 Parents' Performance Goal Orientation	2
4.2.2.6 Discussion of Student A's Parent's Goal Orientation.9	2
4.2.2.7 Overall Discussion of Parents K, N, A's Goal	
Orientation Theory9	3
4.2.3 Seventh Grade Math Teachers' Findings and Discussion94	1
4.2.3.1 Findings of Student K's and Student N's Teacher (See	
Appendix H – 2)9	4
4.2.3.1.1Perception of the School Goal Structure for Students94	1
4.2.3.1.2 Approaches to Instructions	5
4.2.3.1.3Personal Teaching Efficacy	5
4.2.3.2 Discussion of Student K's and Student N's Teacher's	
Perception of the School Goal Structure and Teaching	
Approach9	7
4.2.3.3 Findings of Student A's Teacher's (See Appendix I –	
2)99	8
4.2.3.3.1Perception of the School Goal Structure for Students 98	3
4.2.3.3.2 Approaches to Instructions	9
4.2.3.3.3 Personal Teaching Efficacy	Э

4.2.3.4	Discussion of Student A's Teacher's Perception of the
	School Goal Structure and Teaching Approach101
4.2.3.5	Overall Discussion of Teachers K's, N's, and A's
	Perception of the School Goal Structure and Teaching
	Approach to Instruction and Teaching Efficacy102
4.2.4 Int	terview Findings and Result of Student K's Elementary
Sc	hool Teacher – 7th grade Junior High School Teacher
\	
4.2.4.1	Interview Findings with Student K's 5 th grade
	homeroom teacher (See Appendix J - 1)104
4.2.4.1.	1 Students' Academic-Related Perception, Beliefs, and
	Strategies fact during 5 th grade elementary period 104
4.2.4.1.2	2Parents' Perception on Students' Academic
	Development during 5th grade elementary period 105
4.2.4.2	Interview Finding with student K's 6th grade
	homeroom teacher (See Appendix $J-2$)106
4.2.4.2.	1Students' Academic-Related Perception, Beliefs, and
47	Strategies during 6 th grade elementary period 106
4.2.4.2.2	2Parents' Perception on Students' Academic
	Development during 6 th grade elementary period 106
4.2.4.3	Interview Findings with Student K's 7th grade
	Homeroom Teacher (See Appendix $J-3$)107
4.2.4.3.	1Students' Academic-Related Perception, Beliefs, and
	Strategies during 7th grade 107

4.2.4.3.2Parents' Perception on Students' Academic
Development during 7 th grade
4.2.4.4 Interview Findings with Student K's 7 th grade Math
Teacher (See Appendix J – 4) 107
4.2.4.4.1 Students' Academic-Related Perception, Beliefs, and
Strategies according to 7 th grade Math Teacher 107
4.2.5 Interview Findings and Result of Student N's Interview
Result with Student K's 4 th – 5 th grade Homeroom Teacher
4.2.5.1 Interview Findings with Student N's 4 th grade
homeroom teacher (See Appendix K – 1) 108
4.2.5.1.1Students' Academic-Related Perception, Beliefs, and
Strategies fact during 4th grade elementary period 108
4.2.5.1.2Parents' Perception on Students' Academic
Development during 5 th grade elementary period 109
4.2.5.2 Interview Finding with student N's 5 th grade
homeroom teacher (See Appendix $K-2$)
4.2.5.2.1 Students' Academic-Related Perception, Beliefs, and
Strategies during 5 th grade elementary period 110
4.2.5.2.2Parents' Perception on Students' Academic
Development during 5 th grade elementary period 111
4.2.5.3 Interview Findings with Student N's 7 th grade
Homeroom Teacher (See Appendix K – 3)112

4.2.5.3.1Students' Academic-Related Perception, Beliefs, and
Strategies during 7 th grade
4.2.5.3.2Parents' Perception on Students' Academic
Development during 7 th grade
4.2.5.4 Interview Findings with Student N's 7 th grade Math
Teacher (See Appendix K – 4)113
4.2.5.4.1 Students' Academic-Related Perception, Beliefs, and
Strategies according to 7 th grade Math Teacher 113
4.2.6 Interview Findings and Discussion of Student A's 4 th – 6 th
grade Homeroom Elementary School Teacher – 7 th grade
Junior High School Teacher114
4.2.6.1 Interview Findings with Student A's 4 th grade
Homeroom Teacher (See Appendix $L-1$)114
4.2.6.1.1 Student A's Academic-Related Perception, Beliefs, and
Strategies fact during 5 th grade elementary period 114
4.2.6.1.2Parents' Perception on Students' Academic
Development during 5 th grade elementary period 115
4.2.6.2 Interview Finding with student A's 5 th and 6 th grade
homeroom teacher (See Appendix L – 2)115
4.2.6.2.1 Students' Academic-Related Perception, Beliefs, and
Strategies during 6 th grade elementary period 115
4.2.6.2.2 Parents' Perception on Students' Academic
Development during 6 th grade elementary period 117

	4.2.0	.5 Interview Findings with Student A s / grade	
		Homeroom Teacher (See Appendix $L-3$)	117
	4.2.6	6.3.1 Students' Academic-Related Perception, Beliefs,	anc
		Strategies during 7 th grade	117
	4.2.6	5.3.2Parents' Perception on Students' Acade Development during 7 th grade	
	4.2.6	.4 Interview Findings with Student A's 7th grade Math	
		Teacher (See Appendix L – 4)	119
	4.2.6	5.4.1 Students' Academic-Related Perception, Beliefs,	anc
		Strategies according to 7th grade Math Teacher	119
	4.2.7	The Influence of Factors on Low Mathematics	
		Achievement of Student K	119
	4.2.8	The Influence of Factors on Low Mathematics	
		Achievement of Student N	124
	4.2.9	The Influence of Factors on Low Mathematics	
		Achievement of Student A	128
	4.2.10	Overall Discussion of the Influencing Factors of Studen	nt
		K, N, and A's Low Mathematics Achievement	131
CHAPTER V	CONC	LUSION AND RECOMMENDATION	134
5.1	Conclusi	ion	134
	5.1.1	Conclusion for Student K	134
	5.1.2	Conclusion for Student N	136
	5.1.3	Conclusion for Student A	137
	5.1.4	Overall Conclusion	138

5.2	Recomi	mendations	140
	5.2.1	For Math Teachers	140
	5.2.2	For Parents	140
	5.2.3	For School	141
	5.2.4	For Researcher	141
REFEREN	ICES	K M H A A A M M	142





LIST OF TABLES

page
Table 3. 1 Questionnaire for students
Table 3. 2 Questionnaire for Parents
Table 3. 3 Questionnaire for Teacher
Table 3. 4 Interview Questions List for Homeroom Teacher
Table 3. 5 Interview Questions List for Math Teacher
Table 4. 1 Students' Math Score in Elementary School Report Card
Table 4. 2 Students' Math Score in 7 th Grade
Table 4. 3 Conclusion of the Influence Goal Orientation Factors on Student K 123
Table 4. 4 Conclusion of the Influence Goal Orientation Factors on Student N 127
Table 4. 5 Conclusion of the Influence Goal Orientation Factors on Student A 129



LIST OF FIGURES

		ribution through the Grade
evels		1
	JC V	
	= M	



LIST OF CHARTS

page
Chart 4. 1 Students' Math Score
Chart 4. 2 Students' 7 th grade Summative Math Score
Chart 4. 3 Student K Result for Goal Orientation: Person/Cognitive Goal
Orientation
Chart 4. 4 Student K Academic – Related Perceptions, Beliefs, and Strategies 58
Chart 4. 5 Student N Result for Goal Orientation: Person/Cognitive Goal
Orientation
Chart 4. 6 Student N Academic – Related Perceptions, Beliefs, and Strategies 70
Chart 4. 7 Student A Result for Goal Orientation: Person/Cognitive Goal
Orientation
Chart 4. 8 Student A Academic – Related Perceptions, Beliefs, and Strategies 80
Chart 4. 9 Conclusion for Students' Personal Goal Orientation
Chart 4. 10 Conclusion for Students' Perception of Teacher's Goal Orientation 83
Chart 4. 11 Conclusion for Students' Personal Goal Orientation
Chart 4. 12 Conclusion for Goal Orientation: Behavior
Chart 4.13 Conclusion for Students' Perception of their Parents' Goal Orientation
Chart 4. 14 Perceptions on Children by Student K's Parent
Chart 4. 15 Perceptions on their Children by Student N's Parent
Chart 4. 16 Perceptions on their Children by Student A's Parent
Chart 4 17 Conclusion for Parents' Expectation on Children's Cognitive 93

Chart 4. 18 Result for Student K and Student N's Teacher's Approach to	
Instruction and Teacher's Perception of Goal Structure	. 97
Chart 4. 19 Result for Student A 7 th grade Math Teacher	101
Chart 4. 20 Conclusion for Teachers' Approach to Instruction	102
Chart 4. 21 Conclusion for Teachers' Personal Teaching-Efficacy	103





LIST OF APPENDICES

page

APPENDIX A – 1 Students' Math Score in Elementary School
APPENDIX A – 2 Students' Math Score in 7th Grade
APPENDIX A – 3 Students' N Records
APPENDIX B – 1 Students' Answer of the Questionnaire for Student K B-1
APPENDIX B – 2 Findings of Student K's Goal Orientation Theory B-4
Personal Achievement Goal Orientations Result on Student K B-4
Perception of Teacher's Goals Orientation on Student K B-5
Perception of Goal Structures in the Classroom on Student K B-6
Students' Academic-Related Perceptions, Beliefs, and Strategies Analysis
on Student K
Student K Perception of her Parents' Goal Orientation B-9
APPENDIX C – 1 Students' Answer of the Questionnaire for Student N C-1
APPENDIX C – 2 Findings of Student N's Goal Orientation Theory C-4
Personal Achievement Goal Orientations Result on Student N
Perception of Teacher's Goal Orientation on Student N
Perception of Goal Structures in the Classroom on Student N
Students' Academic-Related Perceptions, Beliefs, and Strategies Analysis
on Student N
Student N Perception of her Parents' Goal Orientation
APPENDIX D – 1 Students' Answer of the Questionnaire for Student A D-1
APPENDIX D – 2 Findings of Student A's Goal Orientation Theory D-4
Personal Achievement Goal Orientations Result on Student A D-4

Perception of Teacher's Goal Orientation on Student A	D-5
Perception of Goal Structures in the Classroom on Student A	D-6
Students' Academic-Related Perceptions, Beliefs, and Strategies Ana.	lysis
on Student A	D-7
Student A Perception of her Parents' Goal Orientation	D-9
APPENDIX E – 1 Findings of Student K's Parents Goal Orientation	E-1
Parents' Answer of the Questionnaire for Student K	.E-1
APPENDIX E – 2 Findings of Student K's Parents Goal Orientation	E-4
Parents' Mastery Goal Orientation	.E-4
Parents' Performance Goal Orientation	.E-4
APPENDIX F – 1 Findings of Student N's Parents Goal Orientation	.F-1
Parents' Answer of the Questionnaire for Student N	.F-1
APPENDIX F – 2 Findings of Student N's Parents Goal Orientation	.F-4
Parents' Mastery Goal Orientation	.F-4
Parents' Performance Goal Orientation	.F-4
APPENDIX G – 1 Findings of Student A's Parents Goal Orientation	G-1
Parents' Answer of the Questionnaire for Student A	G-1
APPENDIX G – 2 Findings of Student A's Parents Goal Orientation	
	G-4
Parents' Mastery Goal Orientation	
	G-4
Parents' Mastery Goal Orientation	G-4 G-4
Parents' Mastery Goal Orientation Parents' Performance Goal Orientation	G-4 G-4
Parents' Mastery Goal Orientation Parents' Performance Goal Orientation APPENDIX H – 1 Student K and Student N's Teacher Questionnaire Ans	G-4 G-4 swer

Mastery Goal Structure for Students H-2
Performance Goal Structure for Students
Approaches to Instruction
Mastery Approaches
Performance Approaches
Teacher Personal Teaching Efficacy for Student K and NH-4
APPENDIX I – 1 Student A's Teacher Questionnaire Answer I-1
APPENDIX I – 2 Findings of Student A's Teacher I-2
Perception of the School Goal Structure for Students
Mastery Goal Structure for StudentsI-2
Performance Goal Structure for StudentsI-2
Approaches to Instruction
Mastery ApproachesI-3
Performance ApproachesI-3
Teacher Personal Teaching Efficacy for Student AI-4
APPENDIX J – 1 Interview Findings with Student K's 5 th Grade Homeroom
Teacher
APPENDIX J – 2 Interview Findings with Student K's 6 th Grade Homeroom
Teacher
APPENDIX J – 3 Interview Findings with Student K's 7 th Grade Homeroom
Teacher
APPENDIX J – 4 Interview Findings with Student K's 7th Grade Math
Teacher

APPENDIX K – 1 Interview Findings with Student N's 4th Grade Homeroom
TeacherK-1
APPENDIX K – 2 Interview Findings with Student N's 5^{th} Grade Homeroom
TeacherK-7
APPENDIX K $-$ 3 Interview Findings with Student N's 7^{th} Grade Homeroom
TeacherK-14
APPENDIX K – 4 Interview Findings with Student N's 7 th Grade Math
TeacherK-16
$ \begin{tabular}{ll} APPENDIX\ L-1\ Interview\ Findings\ with\ Student\ A's\ 4^{th}\ Grade\ Homeroom \\ \end{tabular} $
Teacher L-1
APPENDIX L – 2 Interview Findings with Student A's 5 th and 6 th Grade
Homeroom TeacherL-6
APPENDIX L – 3 Interview Findings with Student A's 7 th Grade Homeroom
Teacher L-12
APPENDIX L – 4 Interview Findings with Student A's 7 th Grade Math
Teacher L-17
APPENDIX M Permission to Use PALS
APPENDIX N Validity by Expert – 1
Questionnaire for Students
Questionnaire for Teacher
Questionnaire for Parents
APPENDIX O Validity by Expert – 2O-1
Questionnaire for StudentsO-1
Questionnaire for Teacher O-6

Questionnaire for Parents	O-8
APPENDIX P Validity by Expert – 3	P-1
Questionnaire for Students	P-1
Questionnaire for Teacher	P-6
Questionnaire for Parents	P-8
APPENDIX Q Validity by Expert – 4	Q-1
Questionnaite for Students	Q-1
Questionnaire for Teacher	Q-6
Questionnaire for Parents	Q-8

