## PREFACE

Praise and great thanks to God for His amazing grace, love, strength, and health which have been given such that the author could finish this thesis well. This thesis which entitled "The Application of Realistic Mathematics Education to improve Students' mathematical Problem Solving Ability on The Topic of Statistics in Grade XI SMA Dharma Pancasila" is submitted in order to get the academic title of Sarjana Pendidikan from Mathematics Department, FMIPA Unimed.

In this part, the author would like to thank for all supports which gained for completion of this thesis. Special thanks to Mrs. Dr. Izwita Dewi, M.Pd as thesis supervisor who has provided guidance, direction and advice from the beginning until the finishing part of this thesis. Great thanks are also due to Prof. Dr. Mukhtar, M.Pd, Dr. E Elvis Napitupulu, M.S, and Drs. Zul Amry, M.Si, Ph.D as thesis examiners who have provided builded suggestion and revision in the completion of this thesis. Thanks also extended for Drs. Yasifati Hia, M.Si as academic supervisor and also for all lecturers in FMIPA Unimed.

The author also expressed sincerely thanks for Prof. Dr. Syawal Gultom, M.Si as rector of Unimed, Dr.Asrin Lubis, M.Pd as Dean of Mathematics and Natural Sciences Faculty, Dr. Iis Siti Jahro, M.Si as Coordinator of Bilingual Program, Dr. Edy Surya, M.Si as Head of Mathematics Department, Drs. Zul Amry, M.Si, Ph.D as Head of Mathematics Education Study Program, Drs. Yasifati Hia, M.Si as Secretary of Mathematics Education, and all staff employess which supported in helping author.

The author expressed thanks so much for Mr. Drs. H. Ibrahim daulay, M.Pd as principal of SMA Dharma Pancasila Medan, Mrs. Vina Ikhsani, S.Pd as mathematics teacher, all teachers and staff employess who have helped author conductiong the research well. Another thanks expressed by the author to all students in SMA Dharma Pancasila Medan, especially Grade XI which consisted of Invictusion and others, also Grade X which consisted of Argentium and others, for every supports, love, and laugh during the research.

Most special thanks especially author would like to express for beloved father Drs. Lukman Harahap and mother Nur Aidah, who always give spirit, motivation, and prayers for the success and completion of this thesis.

The author also thanks for all my friends in PPLT Unimed SMA Negeri 1 Plus Matauli especially for the Betty's Girl (Gusti, Nidak, Ririn and Sist febby). And also big thanks for all my classmate in Bilingual Mathematics Education 2013 especially for Ririn Darianto, Inokasay, Nova Rumapea, Beatrix Siboro, Pinta Napitupulu, Sarah Violita and Kristina. And also big really thanks for my best friend "dunia akhirat" a.k.a Bocor (Mira,

Heppy, Yeni, Mona, Ipeh, Elya, and Adib) who always give me support, motivation and strength to complete this thesis. And the last special thanks for the special one Roy H Manik, A.md who always help me and accompany me to complete this thesis. Thanks for every one who cannot be mentioned one by one who support and motivate the author.

At last, the author has finished this thesis in maximum level but author realized there are some imperfections. For that, the author asks for building comments and suggestions in order to reach the perfection of this thesis. The author wishes that this thesis would be useful to improve the knowledge, understanding, and enrich the science education.

Medan, Oktober 2017 Author,

Yuli Anggina Harahap ID. 4133312014