PREFACE

Give thankfulness to God that gives the God's mercy and spirit so that writer can finish this thesis. The title of this thesis is "The Implementation of Problem Based Learning Model to Improve The Students' Mathematical Problem Solving and Mathematical Communication Ability of Grade VIII SMP Negeri 30 Medan". This thesis was arranged to satisfy the requirement to obtain the Degree of Sarjana Pendidikan from Faculty of Mathematics and Natural Science in State University of Medan.

In the completion of this thesis, the writer received support from various parts, therefore it was appropriate writer big thanks to Mr. Pardomuan N.J.M Sinambela, S.Pd, M.Pd as my thesis supervisor who has provided guidance, direction, and advice to the perfection of this thesis. Thanks are also due to Mr. Dr. Edy Surya, M.Si, Mr. Dr. KMS. Amin Fauzi, M.Pd and Mr. Dr. Denny Haris, S.Si, M.Pd as my examiners who have provided input and suggestion from the planning to the completion of the preparation of the research of this thesis. Thanks are also extended to Prof. Dr. Asmin, M.Pd as academic supervisor and then thank you so much for all my lecturers in FMIPA.

My thanks are extended to Mr. Prof. Dr. Syawal Gultom, M.Pd, as rector of State University of Medan and employee staff in office of university head Mr. Dr. Asrin Lubis, M.Pd as Dean Faculty of Mathematics and Natural Sciences and to coordinator of bilingual Mrs. Dr. Iis Siti Jahro, M.Si and Mr. Dr. Edy Surya, M.Si. as Chief of Mathematics Department, Mr. Zul Amry, M.Si, Ph.D as Chief of Mathematics Education Study Program, Mr. Drs. Yasifati Hia, M.Si as Secretary of Mathematics Education, and all of employee staff who have helped the author.

Thanks to Mrs. Dra. Marta Ria Samosir, M.Si as principle of SMP Negeri 30 Medan who has given permission to writer do research, Mrs. Nursiah S.Pd as mathematics teacher and all teacher, staffs and also the students in grade VIII-6 SMP Negeri 30 Medan who have helped writer conducting the research.

Especially the writer would like to express my gratitude to my dear father Salon Sinambela and my dear mother Nurmaliana br. Hasibuan that always be my hero and continues to provide motivation and prayers for the success of the writer completed this thesis. Special big thanks to my beloved brothers Pardomuan Sinambela, Dmitri Sinambela, my sisters in law Elvri Sembiring, Riana Putri and my nephews Orlando Sinambela, Orlyn Sinambela, Orlanneil Sinambela and Skye Sinambela that always give me support even moril or material and all my family for all pray, motivation, and support until the end of writer's study.

Writer wants to say thanks to my best friends in Bilingual Mathematics Class 2012 especially for Aida, Aisyah, Desy, Erika, Febby, Friska E, Friska S, Mutiara, Padillah, Rahima, Rani, Bella, Windy and Bro Wibowo, Bro Rudi, Bro Satoto for the valuable support and motivation. And also my familiy in IKBKM and for my friends in PPL SMA Negeri 2 Lintong Nihuta for motivation and your support that have give me the best experience.

The writer should give a big effort to prepare this skripsi, and the writer know that this skripsi have so many weakness. So that, the writer needs some suggestions to make it be better. And big wishes, it can be improve our knowledge.

January 2017 Medan, Author,

Adi T.P. Sinambela ID. 4123312001