PREFACE

First for all, the author is grateful to Allah for His blessing and chance for me to finish the study and complete the proposal entitled "Improving Student's Mathematics Problem Solving Ability Using Cooperative Learning Model Type Number Head Together at SMA Negeri 1 Perbaungan". The authors recognize that the completion of this thesis thanks to the help of the moral and the material from various pasties.

The author's special sincerest thanks is expressed to Mr. Dr. E. Elvis Napitupulu, M.S. as her thesis supervisor for his advices, encouragements, suggestions, and knowledge that have been contributed to help the author in compiling this proposal that this proposal could be finished. Then author also say thanks to Mr. Dr. Zul Amry, M.Si., Ph.D. as her academic supervisor for his advices, suggestion, motivations from beginning until finishing study. The author's special thanks are also given to Mr. Prof. Dr. Mukhtar, M.Pd, Mr. Dr. Mulyono, M.Si and Mr. Muliawan Firdaus, S.Pd., M.Si as keynote speaker for their willingness to correct, giving advices, encouragements, suggestion, and knowledge that have been contributed to help the author in compiling this thesis. The author also given thanks to Mr. Dr. Syamsul Gultom, SKM., M.Kes as the Rector of State University of Medan , Mrs. Dr. Martina Restuati, M.Si as the Dean of Faculty of Mathematics and Natural Sciences, Mr. Dr. Pardomuan Sitompul, S. Si., M.Si. As the Head of Mathematics Department and Mrs. Dr. Iis Siti Jahro, M.Si as the Coordinator of Bilingual Program for all the valuable guidance and contribution to complete this thesis. Big thanks for all the lecturers of Mathematics Department and all administrative staff at the faculty, department, and bilingual program for their guidance and administrative assistance given. Then, also give thanks to Mr. Riadi, S.Pd, M.AP as Headmaster of SMA Negeri 1 Perbaungan, Mrs. Tuti S. Sipahutar, S.Pd. as Mathematics teacher at SMA Negeri 1 Perbaungan and also all teacher and staff in SMA Negeri 1 Perbaungan who

help author in doing and finishing the research.

This thesis can't be complied well without the everlasting love and pray from author's beloved parents, Selamat Raharjo and Sri Nur Aini, also for author's beloved younger , Ayu Lestari, Hardi Pradana, Reza Ayu Ardianti for their support, motivation, material and pray so that author can face the problem during his academic year at the university. Big thanks this thesis was compiled from strength, pray, spirit, motivation, material and endless ever given to author by thesis partner, Adji Hardianto, SM. Also big thanks for all friends of Bilingual Mathematics 2015, met by Love and for my best friends: Siti Yusni, Siti Yulianti, Indria Nigsih, Yulia Safrida, Nike Sondang Damanik, Darmita Lumban Gaol, and Tomson Sidauruk for all support. For all partner of PPLT Unimed Bilingual 2018 of SMA Negeri 1 Perbaungan, for my senior and junior in mathematics department, thanks for the support and motivation to finish my study. Finally, the author realize that there are also many weakness and insufficiency in this thesis, for that the author hopes suggestion and critic in making this thesis to be better. Author also hopes this thesis will give advantage for reader and the world of education.

Medan, September 2019

<u>Purnama Dewi</u> ID. 4153312012