PREFACE

In the name of Allah, the Most Gracious, the Most Merciful. All praises to Allah Almighty because by His mercy the author can complete the final project in the form of a thesis entitled **"The Application of an Open-Ended Learning Approach with Probing-Prompting Methods to Improve Students' Mathematical Problem-Solving Ability at Grade VIII SMP Negeri 1 Binjai"**. The thesis was made to complete one of requirement Sarjana Pendidikan (S.Pd) in Bilingual Mathematics Education Study Program, Faculty of Mathematics and Natural Sciences, Universitas Negeri Medan.

The author realizes that during the process of preparing this thesis, I found a lot of attention, encouragement, assistance, as well as moral and scientific guidance from the other, so that the author can complete this final project. Therefore, on this occasion the author would like to thank:

- 1. Mr. Dr. Syamsul Gultom, S.KM., M.Kes as a rector Universitas Negeri Medan
- 2. Mrs. Prof. Dr. Fauziyah Harahap, M.Si as a dean of faculty mathematics and natural science Universitas Negeri Medan
- 3. Mr. Dr. Pardomuan Sitompul, M.Si as a head of mathematics department of faculty mathematics and natural science Universitas Negeri Medan
- 4. Mrs. Nurhasanah Siregar, S.Pd., M.Pd as a head of mathematics education program, faculty mathematics and natural science Universitas Negeri Medan
- 5. Mrs. Dr. Ely Djulia, M.Pd as a coordinator of mathematics education program, faculty mathematics and natural science Universitas Negeri Medan
- 6. Mrs. Dr. Ani Minarni, M.Si. as a thesis supervisor who has guided me loving, provided motivation, direction so that this thesis could be completed
- 7. Mr. Prof. Dr. Zul Amry, M.Si, Ph.D as an academic supervisor who has guided me, provided motivation, direction as long as I in Universitas Negeri Medan
- 8. Mr. Prof. Dr. Edi Syahputra, M.Pd as a first examiner Sudianto Manullang, S.Si, M.Sc as a second examiner and Mr. Kairuddin, S.Si., M.Pd as a third examiner who has given many suggestions and criticisms to this final project.
- 9. Mr. Drs. Sofyan M.Pd as headmaster of SMP Negeri 1 Binjai, Mr. Joyo Martono S.Pd, as my respect and informance teacher, Mrs. Agustina S.Pd as homeroom of VIII-7 class, all of teachers and staffs in SMP Negeri 1 Binjai and students of VIII-5 and VIII-7 class who help me to finishing my research.

- 10. Special for my parents who I really respect, Mr. Asnawi Efendi and Mrs. Ritawani S.Pd who has cared, raised, and educated me with love throughout their life, and to my for siblings are Khadijah Hairani and Diana Reihan Syabila who are really kind, and to my second mother Ms. Mariati who helped my parents raising me up. By the grace of Allah, we are together. Its all cause their constant prayers and support.
- 11. Special for my bestfriend since elementary and junior high school, Mawaddah Ahlina A.Md.Par, Jessica Nikita Rachel Br. Ginting S., Maesya Putrina Sitepu A.Md., Ak., Raihani Nabila Khairy Harapahap S.H, Annisa Fatia Harahap S.KM, Vika Widya Sari S. Pd who always help and support me finishing this research.
- 12. Special for my college buddies, hardianti, latifah, dewi, thasya, putmal, for who always hanging out together and laugh in everymoment eventhough that was funny at all
- 13. Special for my loves, Seventeen, who helping me accompany and entertain me during my research and lectures, S.coups, Jeonghan, Joshua, Jun, Hoshi, Wonwoo, Woozi, The8, Mingyu, Dokyeom, Seungkwan, Vernon, Dino.
- 14. Special for my friends in MESP 2018 who are friendly and kind.
- 15. All parties who helped in writing this thesis

May Allah SWT. Giving the best gift for every goodness that giving to me. Hopefully this work is useful for many people.

Medan, October 2022 Sincerely,

Fadhilah Hayati