BIOGRAPHY

Putri Welpa Hutajulu was born in Sei Rampah, Sei Rampah district, Serdang Bedagai on January 23\textsuperscript{rd}, 1991. Father named P. Hutajulu and mother named W. Sinaga, S.Pd, and she is the second of five children. In the 1996, author entry Elementary School No 102016 Sei Rampah, and graduated in 2002, the authors go to school in SMP I Sei Rampah in 2002, and graduated in 2008. In 2005, the author of the school to SMA Negeri 1 Sei Rampah, and graduated in 2008. In 2008, the author received in Mathematics Education Studies Program, Department of Mathematics Bilingual Education, Faculty of Mathematics and Natural Sciences, Medan State University.
ACKNOWLEDGEMENT

First and Foremost, the writer would like to thank the Almighty God for the grace and praise that has been given to her until she can complete this thesis entitled “The Difference of Student’s Mathematics Learning Outcomes Using Think Talk Write (TTW) Learning and Conventional Learning At First Grade SMA N 1 Tebing Tinggi” as the fulfillment to get the degree of Sarjana Pendidikan at the Mathematic Bilingual Department, Faculty of Mathematics and Sains, Medan State University.

In the process of finishing this thesis, the writer faced a lot of difficulties, however because of the helping of each side; this thesis finally can be completed. Thus, the writer would like to express her sincere gratitude to many people.

First of all, the writer would like to express her profound gratitude to her consultant, Dr. Esther Nababan, M.Sc for her valuable time in giving the encouragement, guidance, and suggestion until this thesis come o its present form. Her assistance and understanding in the form of academic consultant are very highly appreciated. For Prof. Dian Armanto, M.Sc, Ed, M.Pd, MA, Ph.D, Dr. Hasratuddin M. Pd, and Dr. Edy Syahputra, M.Pd as advisory teachers who has given input from the planning of research to the preparation of this thesis.

Her thanks also due to Prof. Drs. Motlan, M.Sc, Ph.D. The Dean of Mathematics and Sains Faculty, Medan State University. His deepest gratitude also goes to Prof. Dr. Herbert Sipahutar, M.Sc as the coordinator of Bilingual Program and Prof. Dr. Mukhtar, M.Pd., the Head of Mathematics Department and Drs. Syafari, M.Pd, secretary of the Mathematics Education Department, and to all the lecturers who had advised and guided her through academic years at the State University of Medan.

Then, the writer would like to express her greatest thanks and everlasting gratitude to her beloved parents, P. Hutajulu and W. Sinaga, S.Pd and her beloved grandparents J. Sinaga, K. Saragih, and K. Sianturi as the inspirations of her life, for their endless loves, advices, prays, and supports both moral and material. Her deepest indebtedness also goes to her beloved brothers Daniel Pati Jaya Hutajulu
and Wahyu Putra Hutajulu and her beloved sisters Milia F. R Hutajulu, S.Pd and Bela Juliana Hutajulu for their everlasting love. The writer also said thank you for her aunts, uncles, nephews, and nieces because of their support.

Further, many thanks are offered to MHD. Syarif M,SI, M.Pd. The Headmaster of SMA Negeri 1 Tebing Tinggi and to the Mathematics’ teacher, Merliana S.Pd., for their kindness and support during the research.

Her sincerely thanks are also addressed for her best friends “SERAPHIM” (B’Rustam, Janna, Togu, Blessing) for the support, pray, solidarity, and endless friendship. Her thanks also go to all friends in Mathematics Bilingual Education 2008 for their encouragement and their kindness during spending time in Medan State University and all people that cannot be mentioned one by one. For their love, support, and pray, may God bless them.

Medan, September 2012

Writer

Putri Welpa Hutajulu