

## ABSTRACT

**ERNAYANTI.** 2017. *Development Of Student Worksheets Based On Guided Discovery Method On a Material Of Circle For Students In Grade VIII SMPN 4 Takalar*. Thesis. Mathematics Education Majors, Faculty Of Teacher Training and Education, University Muhammadiyah Makassar.

*This study aims to produce student worksheets based on guided discovery method on a material of circle for students in grade VIII in SMPN 4 Takalar that have validity, practicality and good effectiveness. This study is a research and development by adopting 4-D procedure that are define stage, design stage, and develop stage that consists of validity test, practicality test and effectiveness test. Validity is done by three experts in material of mathematics, two experts in construction and one expert in linguistics. The practicality of student worksheets are examined to five students in grade VIII SMPN 4 Takalar first semester of academic year 2017/2018. The effectiveness of student worksheets are examined to students in grade VIII<sub>B</sub> SMP Negeri 4 Takalar first semester of academic year 2017/2018, amount to 25 students, consists of 12 male students and 13 female students. The instrumen of this study are validation sheet of student worksheets, practicality sheet of student worksheets and effectiveness sheet of student worksheet. All data collected were analyzed the validity, practicality and its effectiveness. This result showed that : a) Student mathematics worksheets based on guided discovery method in SMPN 4 included in the category of very valid from aspects of material, construction, and language with average score 4,46, b) Student mathematics worksheets based on guided discovery method in SMPN 4 included in the category of very practical with average score 4,35, c) Student mathematics worksheets based on guided discovery method in SMPN 4 included in the category of very effective with average score 4,15 and achieving effectiveness : 1) Activity in teaching and learning process is active with average score of students activity and teacher activity 3,85, 2) Students respond toward learning is effective with average score of students respond 4,06, 3) The learning result of students class VIII<sub>B</sub> SMP Negeri 4 Takalar is effective with score 4,44 and the average percentage of students who achieve a minimum completeness 75 is 92%.*

**Key words** :*Research and Development, Student Worksheets (LKS), Guided Discovery Method*