

DEVELOPING STUDENT WORKSHEET BASED ON COGNITIVE LOAD THEORY FOR LEARNING JUNIOR HIGH SCHOOL GEOMETRY

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ABSTRACT

The aim of the Community Service (CM) is to facilitate mathematics teachers to develop student worksheet based on cognitive load theory for learning geometry and to disseminate the reaserch results in cognitive load theory to the teachers, thus they can apply it into classroom practice. The CM Team is from Program of study of Mathematics Education, YSU collaborating with the Junior High School Mathematics Teacher Association in Sleman (MGMP SMP). There were 40 mathematics teachers actively participating in the workshop. The activity was started by a clasiical discussion about two relevant topics: (1) the essential of the national curriculum 2013 in mathematics, (2) the development of student worksheet based on cognitive load theory for Junior High School geometry. The main activity was completed by small-groups where the teachers create and develop worksheet in various geometry topics, then presented the results to the others. Discussion and feedback were used to improve the developed worksheet. As a reward, the participant received certificate of attendance. The evaluation indicated that the participants were actively involve in the workshop and such workshop should be continuously organised for other learning material in mathematics.

Kata Kunci: *geometry, cognitive load theory, worksheet*