

## **Workshop on Developing of Open-ended Problems For Junior High School Mathematics Teachers in Kulon Progo Regency**

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### ABSTRACT

Community Service Activities (PPM) entitled "Workshop on Developing of Open-ended Problems for Junior High School Mathematics Teachers in Kulon Progo Regency" is aimed at improving the quality of Junior High School teaching and learning activities in Kulon Progo Regency. More specifically, this PPM activity aims to improve the skills of mathematics teachers in developing or preparing open-ended questions / problems.

The target of this activity is at least 30 Junior High School Mathematics Teachers in Kulon Progo Regency. The PPM team invited 40 Junior Mathematics Teachers in Kulon Progo Regency who actively participated in MGMP activities. Of the 40 math teachers invited, there were 39 people present. The implementation of this PPM activity takes place in SMP Negeri 1 Wates, Kulon Progo. This activity was held on November 12, 2017.

This PPM activity is in the form of workshop, covering the activity of theory, practice, and presentation. Practical activities making open-ended questions / problems have been done well. However, to be able to construct various open-ended questions / problems, for example on Geometry, Trigonometry, Statistics, and Algebra topics, some teachers are still struggling. Teachers have no difficulty in making open-ended questions / issues that have many ways to answer, but are still having trouble creating open-ended problems that have many correct answers. For future PPM activities some workshop participants suggested to be given a workshop on the development of the latest learning models

Kata Kunci: *workshop, open-ended, teacher, math*