

## Workshop on Developing Creative Mathematics Tasks for Mathematics Teachers in Sleman

by Ariyadi Wijaya, Jailani, Tuharto, Endah Retnowati

### ABSTRACT

Creativity is an important skill which is needed to cope with the demand of the 21st century so that it is often called as 21st century skill. Creativity is a skill that can be developed. An individual's failure in producing innovation is not caused by his or her *the lack of creative potential*, it might be due to a lack of knowledge and experiences to manage all potentials he or she has. Considering this fact, it is important to design mathematics learning that is also aimed to develop students' creativity. If mathematics learning only focuses on 'know how', then the development of students' creativity is limited. To develop students' creativity and learning of mathematics reasoning should be more to educate students to think mathematically reasoning (educate students to think mathematically). To that end, in mathematics learning need to use creative math problems (creative mathematics task), one of which is a matter open (open-ended task). But, unfortunately, a matter of creativity in mathematics books have been inadequate.

To address the lack of creative math problems in the math book, this activity aims to develop the skills of math teachers in making creative math problems. After participating in this activity is expected of teachers can develop their own creative math problems. Long-term expectations are members of this activity could be a positive impact on increasing students' creativity through the use of creative math problems. The method used in this activity is a method of training or workshop. At the beginning of the event, the participants received materials and examples of creative math problems. Furthermore, the participants were given the opportunity to make creative math problems, assisted by facilitators.

The results of these activities are teachers gain new experience about math problems and their creative development principles. This training can be said to be new at this early stage about who made the teacher is still less varied. Therefore, the need for sustainability of this kind of training to improve the skills of teachers in preparing creative matematika matter.

Kata Kunci: *Creativity, creative mathematics tasks, teacher competence*