

Workshop on Preparation of Algebra and Geometry questions Type HOTS (Higher-order Thinking Skills) for Junior Highschool Math Teachers

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ABSTRACT

The ability of mathematical literacy is to understand Mathematics material and use it in solving real life problems. Questions that require higher-order thinking skills are a type of HOTS (Higher-order Thinking Skills). HOTS questions are measurement instruments used to measure higher-order thinking abilities, namely thinking abilities that are not merely recalling, restating, or referring without doing processing (recite). However, HOTS-based questions do not mean more difficult questions than recall. To write HOTS items, the question writer is required to be able to determine the behavior to be measured and formulate material that will be the basis of the question (stimulus) in a particular context in accordance with the expected behavior. In addition, the description of the material to be asked (which requires high reasoning) is not always available in textbooks. Therefore, in writing HOTS questions, mastery of instructional materials is needed, skills in writing questions (problem construction), and teacher creativity in choosing stimulus questions in accordance with the situation and conditions of the area around the education unit. The results of the training have given teachers an understanding of the understanding, characteristics and examples of HOTS questions. It can be seen from the results of the training that was followed by 52 Mathematics teachers in the MGMP Kawedanan Gondang Winangun Klaten. Based on the evaluation questionnaire, 83.33% of the participants were very enthusiastic about participating in the HOTS questioning training activity. Submission of material is also interesting, as much as 75% said agree / strongly agree. Besides, as many as 81.67% of the participants were motivated to make daily junior high school math problems of type HOTS after attending the training. Participants also felt there was a need for further training, that is based on opinions as much as 83.33% agreed / strongly agreed to hold further training.

Kata Kunci: Mathematical literacy, HOTS, questions, evaluation questionnaire