ABSTRACT
All this time, mathematics has become the scourge for elementary and junior high school students, so that students are not well motivated to learn the material of Mathematics. Along with the development of computer technology, it can be used as one tool that can help the learning process. Mathematics software can be used to explain the difficult concepts in mathematics becomes easily, clearer, more interesting and fun. In Ponorogo, mathematics teachers have a meeting forum called the Subject Teacher Council (MGMP) of Mathematics. The general problems of the council is the less equality in opportunities of MGMP Mathematics teachers in Junior Secondary Schools (SMP and MTs) at Ponorogo to attain trainings for improving students skills in understanding the material of Mathematics and the limited insight of mathematics teachers about mathematics software that can be used as an instructional media of mathematics material. Therefore, the activity of microsoft mathematics training for mathematics teachers in Junior Secondary Schools at Ponorogo has been necessarily and urgently needed to improve the quality of learning methods. These software is open source software with less space requirement in the computer and easy installation.

KEYWORDS
Junior Secondary Schools, Teachers, Training, Microsoft Mathematics, Ponorogo.
problems are given. According [3], learning by rote is not too demanding students activity of thinking and contains a bad effect on the mental development of students.

The use of computer facilities in some schools perceived lack of leverage in supporting teaching and learning process, especially in mathematics. The teachers did not know that currently there is some mathematical software that can be used as a tool to explain the concepts in Mathematics. If teachers can find only one of several mathematical software, then in addition to maximizing the computer facilities in schools, the students quality of learning mathematics can be improved.

Microsoft Mathematics is open source software with less space requirement in the computer. In addition to the easy installation, it is also very easy, even for those who had never known. Microsoft Mathematics provides a variety of tools that help students understand mathematics concepts with easily and quickly. Because it can be considered as a calculator, the device is very easy to operate without the need to learn too long. In addition, the results of calculation of the analytical results of the following explanation and graphical results can be stored so that it can be used as teaching materials by teachers. Because of these advantages, the executive team of this activity chose Microsoft Mathematics as an instructional media of learning materials in Mathematics. Microsoft Mathematics can be downloaded for free from http://bit.ly/MSMath. Figure 1 is shown Microsoft Mathematics display for solving a quadratic equation.

To obtain the target and the outcome of the activity, namely improving the quality of mathematics learning methods, the purpose of this study is to provide an opportunity and expand the horizons of MGMP mathematics teachers in MTs and SMP (Junior Secondary Schools) at Ponorogo to obtain training for improving students skills in understanding the mathematics material.

MATERIALS AND METHODS

The research model is the training of Mathematics Software. The training activities conducted by Lecturer of Mathematics Department, Faculty of Mathematics and Natural Sciences, University of Brawijaya.

The first phase was spreading the invitation to Junior Secondary Schools through Mathematics MGMP in Ponorogo to attract prospective participants. Because Microsoft Mathematics is open source software, then in the second stage performed an initial evaluation to determine how far the participants to know about Microsoft Mathematics. In the third stage of training was done by providing modules and manual procedures from Microsoft Mathematics. The training also provided various examples, by following the explanations of the instructor. Each participant was asked to bring a portable computer that can directly work on the worksheet using Microsoft Mathematics. In the fourth phase, participants were asked to fill out questionnaires regarding the implementation of the activities and expectations to these kinds of activities. The last stage, the evaluation of the training result for participants and activities are conducted.

RESULTS AND DISCUSSION

The training was attended by 35 mathematics teachers of SMP and 35 mathematics teachers of MTs in Ponorogo who enroll through Junior Secondary Schools Mathematics MGMP in Ponorogo (100% of the invited guests were present). The training location was in MTsN and SMPN I Ponorogo which have computer laboratorium with adequate internet installation.

Pretest as an initial internal evaluation was performed because the participants did not...
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To measure the success level of this activity, evaluation to the participants and activities were conducted. The evaluation to the participants were: work on a worksheet according to the instructions on the module reaches 70% correct. From the training results, 94.3% of the MTs Mathematics teachers and 100% of SMP Mathematics teachers were doing the worksheet according to the instructions and correct. The evaluation of the training activities for Mathematics teachers of MTs and SMP in Ponorogo is considered highly successful as participants registered were all present and following the activities with the necessary requirements and expect a sustainable activity (100%). Therefore, the results of research evaluation is considered very good. Figure 4 is a documentation of participants presented activities.

CONCLUSIONS AND SUGGESTION

The results obtained from the training implementation, that teachers get some materials that can be used as material enrichment and props in the classroom to improve teaching skills materials of Mathematics, that is Microsoft Mathematics Software, modules and worksheets. Therefore, mathematics teaching materials expected can be more easily understood by the students. In addition to the establishment of excellent sustainable cooperation between Mathematics MGMP of Junior Secondary schools in Ponorogo with the Department of Mathematics, Faculty of Mathematics and Natural Sciences, University of
Brawijaya Malang, in the quality of learning methods Mathematics as IbM program outcomes can be achieved.

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REFERENCES


