

## ABSTRAK

**Mario Diphon Sentono (NIM : 131414023). 2017. *Pembelajaran Berbasis Masalah Berbantu Media Visual pada Materi Segiempat bagi Peserta Didik Kelas VII di SMP Yos Sudarso Cigugur.* Skripsi. Program Studi Pendidikan Matematika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma Yogyakarta.**

Materi segiempat pada pelajaran matematika merupakan materi yang membutuhkan kecerdasan visual, siswa mengalami kesulitan terkait dengan membuat dan membayangkan gambaran visual dari bangun datar, dan siswa kurang bersemangat mengikuti proses pembelajaran di kelas, dikarenakan proses pembelajaran yang monoton. Maka dari itu peneliti menggunakan pendekatan pembelajaran berbasis masalah berbantu media visual guna meningkatkan minat siswa dalam belajar. Tujuan penelitian ini adalah untuk mengetahui langkah membelajarkan materi segiempat dengan menerapkan pembelajaran berbasis masalah berbantu media visual dan pengaruh hasil belajar peserta didik.

Penelitian ini merupakan penelitian deskriptif kualitatif. Subjek penelitian ini adalah siswa kelas VIIC di SMP Yos Sudarso Cigugur berjumlah 28 siswa. Dilaksanakan pada bulan Mei dan Juni. Teknis pengambilan data dengan instrumen tes dan wawancara. Data yang diperoleh dari penelitian ini adalah data hasil tes kemampuan belajar diperoleh dari tes tertulis dan hasil wawancara beberapa siswa. Teknis analisi data menggunakan Reduksi data, penyajian data dan kesimpulan tau verifikasi.

Hasil penelitian terhadap proses pembelajaran berbasis masalah berbantu media visual meliputi fase pertama orientasi siswa terhadap masalah, fase kedua mengorganisasikan siswa untuk belajar, fase ketiga membantu menyelidiki secara individu atau kelompok, fase keempat mengembangkan dan menyajikan hasil karya, fase kelima menganalisis dan mengevaluasi proses pemecahan masalah. Hasil belajar yang dicapai oleh siswa pada materi bangun datar segiempat sesudah menjalani pembelajaran berbasis masalah berbantu media visual, yaitu: dari 28 siswa ada 5 siswa termasuk kategori tinggi, 19 siswa termasuk kategori sedang, dan 4 siswa termasuk kategori rendah.

Kata kunci: pembelajaran berbasis masalah, media visual, segiempat.

## ABSTRACT

**Mario Dipho Sentono (NIM : 131414023). 2017. *Problem-based Learning that is assisted by Visual Media on Quadrilateral Object for Student of Seventh Grade at SMP YOS SUDARSO CIGUGUR.* Undergraduate Thesis. Mathematics Education, Department of Mathematics and Natural Sciences. Faculty of Education, Sanata Dharma University Yogyakarta.**

Quadrilateral object on mathematics was an object of learning that required visual intelligence. Lot of students has difficulty in creating and imagining visual image. Students were also less enthusiastic in the learning session due to monotonous process. Therefore, this research used problem-based learning approach, assisted by visual media, to increase student interest in quadrilateral learning. The purpose of this research was to determine step of teaching quadrilateral object by applying problem-based learning that was assisted by visual media and to find out the effect of this study to student's learning outcomes.

This research was a qualitative descriptive research. The subjects of this research were 28 students of seventh grade, Class VII C, at SMP Yos Sudarso Cigugur. The research is held on May and June 2017. Data was taken by applying written test and interview. The data in this research was a student result of learning ability test that was obtained from both written test and interview. Moreover, the data was processed by using data reduction method, data presentation, and data conclusion.

The result of research on step of problem-based learning that was assisted by visual media shows the first phase was to manage students to be focus on problem. The problem given was to classify the object into groups based on the classification group that was made previously by the students. Second phase was to organize student to learn. The third phase was to lead the investigation individually or in group. Not all students work with their group members to solve the problems and questions on worksheet. The fourth phase was to develop and present the result of group working. The fifth phase was to analyze and evaluate problem solving process. The student's result on quadrilateral learning process after applying problem-based learning that was assisted by visual media is from 28 students, there were 5 students in high category, 19 students in medium category, and 4 students in low category.

Keyword: problem-based learning, visual media, quadrilateral