

## ABSTRAK

### **Gita Madya Susani (2017), Pengaruh Penggunaan Model Pembelajaran *Problem Based Learning* dengan Pendekatan *Open Ended* terhadap Peningkatan Kemampuan Komunikasi dan Disposisi Matematis Siswa SMK.**

Tujuan penelitian ini yaitu untuk melihat peningkatan kemampuan komunikasi dan pencapaian disposisi matematis siswa SMK dalam pembelajaran matematika melalui model pembelajaran *Problem Based Learning* (PBL) dengan pendekatan *Open Ended*. Metode penelitian yang digunakan adalah metode eksperimen dengan desain penelitian "*Pretest-Posttest Control Group*". Sample penelitian dipilih dua kelas dengan acak menurut kelas. Populasi dalam penelitian ini yaitu seluruh siswa SMKN 3 Bandung dengan sample penelitiannya yaitu kelas eksperimen X UPW 2 yang diberikan perlakuan pembelajaran *Problem Based Learning* (PBL) dengan Pendekatan *Open Ended* dan kelas kontrol X UPW 3 yang diberikan perlakuan pembelajaran *Problem Based Learning* (PBL). Instrumen yang digunakan untuk tes kemampuan komunikasi yaitu tes uraian sedangkan untuk disposisi matematis yaitu skala *Likert*. Data yang terkumpul kemudian diolah menggunakan *software SPSS 16.0 for windows*. Temuan penelitian ini menunjukkan: 1) Peningkatan kemampuan komunikasi matematis siswa yang memperoleh pembelajaran *Problem Based Learning* (PBL) dengan pendekatan *Open Ended* lebih baik daripada siswa yang memperoleh pembelajaran *Problem Based Learning* (PBL). 2) Pencapaian disposisi matematis siswa yang memperoleh pembelajaran *Problem Based Learning* (PBL) dengan pendekatan *Open Ended* tidak lebih baik daripada siswa yang memperoleh pembelajaran *Problem Based Learning* (PBL). Dari kesimpulan tersebut maka penulis menyarankan kepada guru untuk mempertimbangkan pembelajaran menggunakan model *Problem Based Learning* (PBL) dengan pendekatan *Open Ended* yang dapat dijadikan sebagai salah satu alternatif pembelajaran dikelas untuk meningkatkan kemampuan komunikasi matematis.

**Kata Kunci :** Pembelajaran *Problem Based Learning* (PBL), pendekatan *Open Ended*, Kemampuan Komunikasi Matematis, dan Disposisi Matematis

## ABSTRACT

### **Gita Madya Susani (2017), The Influence of Use of Learning Problem Learning Model With Open Ended Approach to The Improvement of The Communication And Mathematical Disposition Of Students SMK**

The purpose of this study is to see the improvement of communication skills and the achievement of mathematical disposition of SMK students in learning mathematics through Problem Based Learning (PBL) learning model with Open Ended approach. The research method used is experimental method with research design "Pretest-Posttest Control Group". The research sample was chosen by two classes randomly by class. Population in this research is all student of SMKN 3 Bandung with sample of research that is class of experiment X UPW 2 given treatment of Problem Based Learning (PBL) with Open Ended Approach and control class X UPW 3 given Problem Based Learning Learning (PBL). The instrument used for communication ability test is the description test while for the mathematical disposition is Likert scale. Data collected then processed using software SPSS 16.0 for windows. The findings of this research show: 1) Improvement of mathematical communication ability of students to acquire Problem Based Learning (PBL) learning with Open Ended approach is better than students who get Problem Based Learning (PBL) learning. 2) Achievement of mathematical disposition of students to acquire Problem Based Learning (PBL) learning with Open Ended approach is no better than students who get Problem Based Learning (PBL) learning. From these conclusions, the authors suggest to teachers to consider learning using Problem Based Learning model (PBL) with Open Ended approach that can be used as an alternative of learning in the classroom to improve mathematical communication skills.

**Keywords:** Problem Based Learning (PBL), approach Open Ended, Mathematical Communication Skills, and Mathematical Disposition