

## ABSTRACT

Riezka Sholehawati (125050106). **Application of Learning Model *Search, Solve, Create, and Share* (SSCS) to Improve Mathematical Representation Ability of High School Students**

This research is motivated by the low representation of students' mathematical abilities Indonesian based on research results of PISA 2012 and Hudiono. Based on interviews with teachers of mathematics courses that most students SMA Nasional Bandung have difficulty representation a problem in the form of pictures and symbols of mathematics. This research aims to: 1) knowing increased ability mathematical representation among students who obtain the learning of mathematics to use learning model *Search, Solve, Create, and Share* (SSCS) with students using model *Problem Based Learning* (PBL); 2) know the students attitudes toward learning mathematics that uses learning model *Search, Solve, Create, and Share* (SSCS). This research method is experiment. The research population is National High School of Bandung and the sample are students of class X National High School of Bandung selected randomly. The instrument used was a test of type descriptions and attitude scale using the Likert scale. Tests trialed in advance in the class XI. Based on the analysis of the trial results, all test items eligible to use research. Data analysis was performed using t-test through the program *SPSS 23.0 for Windows* that is by using *Independen-Sampel T Test*. Based on the analysis of research data, it is concluded: 1) Increased ability to obtain a mathematical representation of students learning model *Search, Solve, Create, and Share* (SSCS) is better than students who use learning model *Problem Based Learning* (PBL); 2) Students positive attitudes towards learning mathematics that uses learning model *Search, Solve, Create, and Share* (SSCS). Therefore the learning model *Search, Solve, Create, and Share* (SSCS) can be used as an alternative for teachers in implementing the learning to make learning more active, effective, and fun.

**Kata Kunci:** *Search, Solve, Create, and Share* (SSCS), *Problem Based Learning* (PBL), Mathematical Representation, Attitude