

**PENGARUH MODEL PEMBELAJARAN KOOPERATIF TIPE STAD
DAN PEMBERIAN SOAL *OPEN-ENDED* TERHADAP KEMAMPUAN PEMECAHAN
MASALAH MATEMATIS SISWA DITINJAU DARI KEMAMPUAN AWAL MATEMATIKA
DI SMP JAKARTA PUSAT**

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian soal *Open-Ended* dalam model pembelajaran kooperatif tipe STAD terhadap kemampuan pemecahan masalah matematis siswa. Penelitian ini dilakukan di SMP Santa Theresia, Menteng, Jakarta Pusat. Metode yang digunakan dalam penelitian ini adalah *quasi* eksperimen. Teknik pengumpulan data yaitu tes kemampuan pemecahan masalah matematis dan tes kemampuan awal matematika.

Hasil penelitian menunjukkan bahwa (1) kemampuan pemecahan masalah matematis siswa yang diajar dengan pemberian soal *Open-Ended* dalam model pembelajaran kooperatif tipe STAD lebih tinggi daripada model konvensional, (2) tidak terdapat interaksi antara model pembelajaran dan kemampuan awal matematika terhadap kemampuan pemecahan masalah matematis, (3) terdapat perbedaan yang signifikan kemampuan pemecahan masalah matematis siswa yang diajar dengan pemberian soal *Open-Ended* dalam model pembelajaran kooperatif tipe STAD dan model pembelajaran konvensional pada kelompok siswa yang memiliki kemampuan awal matematika tinggi, (4) tidak terdapat perbedaan yang signifikan kemampuan pemecahan masalah matematis siswa yang diajar dengan pemberian soal *Open-Ended* dalam model pembelajaran kooperatif tipe STAD dan model pembelajaran konvensional pada kelompok siswa yang memiliki kemampuan awal matematika rendah.

Kata kunci: *STAD, Open-Ended, pemecahan masalah matematis*

**THE EFFECT OF COOPERATIVE LEARNING MODEL STAD TYPE
AND GIVING OPEN-ENDED QUESTIONS TO STUDENTS' MATHEMATICAL
PROBLEM SOLVING ABILITY SEEN FROM THEIR MATHEMATICS INITIAL
KNOWLEDGE AT JUNIOR HIGH SCHOOLS IN CENTRAL JAKARTA**

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ABSTRACT

This study aims to determine the effect of giving Open-Ended questions in cooperative learning model, STAD type, to students' mathematical problem solving ability. This study was conducted in SMP Santa Theresia, Menteng, Central Jakarta. The method used in this study is quasi-experimental. The technics of data collection of this study are test of mathematical problem solving ability and Mathematics initial knowledge.

The results of this study show that (1) mathematical problem solving ability of students who are taught by giving Open-Ended questions in cooperative learning model, STAD type, is higher than the ability of mathematical problem solving of those who are taught by using conventional learning model, (2) there is no interaction between learning model and Mathematics initial knowledge to mathematical problem solving ability, (3) there is significant difference of mathematical problem solving ability of students who are taught by giving Open-Ended questions in cooperative learning model, STAD type and mathematical problem solving ability of students who are taught by using conventional learning model among student group whose Mathematics initial knowledge is high, (4) there is no significant difference of mathematical problem solving ability of students who are taught by giving Open-Ended questions in cooperative learning model, STAD type and mathematical problem solving ability of students who are taught by using conventional learning model among student group whose Mathematics initial knowledge is low.

Key words: STAD, Open-Ended, mathematical problem solving