

**PENGARUH PENERAPAN MODEL *RECIPROCAL TEACHING*
BERBANTUAN *LIVEWORKSHEET* TERHADAP KEMAMPUAN
PEMECAHAN MASALAH MATEMATIKA SISWA KELAS VIII DI SMP
NEGERI 6 SINGARAJA**

Oleh

Mutiara Marcella Br Sagala, NIM 2113011081

Jurusan Matematika

ABSTRAK

Penelitian ini bertujuan untuk menguji pengaruh penerapan model *Reciprocal Teaching* berbantuan *liveworksheet* terhadap kemampuan pemecahan masalah matematika siswa. Penelitian ini merupakan penelitian eksperimen semu dengan *posttest only control group design*. Populasi penelitian ini adalah siswa kelas VIII SMP Negeri 6 Singaraja Tahun Ajaran 2024/2025 dan pengambilan sampel menggunakan teknik *cluster random sampling*. Dari hasil pengundian diperoleh kelas VIII 1 sebanyak 32 siswa sebagai kelas eksperimen yang mengikuti pembelajaran menggunakan model *Reciprocal Teaching* berbantuan *liveworksheet* dan kelas VIII 10 sebanyak 32 siswa sebagai kelas kontrol yang mengikuti pembelajaran konvensional. Hasil penelitian mengungkap bahwa kelas eksperimen memiliki rata-rata skor *post-test* sebesar 76,63, sedangkan kelas kontrol memperoleh rata-rata skor *posttest* sebesar 68,13. Hasil uji hipotesis yang menggunakan *independent sample t-test* dengan taraf signifikansi 0,05 menunjukkan nilai signifikansi (sig.) sebesar 0,002 dimana $0,002 < 0,05$. Hal ini mengindikasikan terdapat pengaruh signifikan dari penerapan model *Reciprocal Teaching* berbantuan *liveworksheet* dalam meningkatkan kemampuan pemecahan masalah matematis. Berdasarkan hal tersebut, dapat dinyatakan bahwa kemampuan pemecahan masalah matematika siswa yang dibelajarkan menggunakan model *Reciprocal Teaching* berbantuan *liveworksheet* lebih tinggi daripada kemampuan pemecahan masalah matematika siswa yang dibelajarkan dengan pembelajaran konvensional.

Kata kunci: model *reciprocal teaching*, *liveworksheet*, kemampuan pemecahan masalah

**THE EFFECT OF THE APPLICATION OF RECIPROCAL TEACHING
MODEL ASSISTED BY LIVEWORKSHEET ON THE MATHEMATICAL
PROBLEM SOLVING ABILITY OF CLASS VIII STUDENTS AT SMP
NEGERI 6 SINGARAJA**

By

Mutiara Marcella Br Sagala, NIM 2113011081

Bachelor of Mathematics Study Program

ABSTRACT

This study aims to examine the effect of the application of Reciprocal Teaching model assisted by liveworksheet on students' mathematical problem solving ability. This research is a pseudo-experimental research with posttest only control group design. The population of this study were VIII grade students of SMP Negeri 6 Singaraja in the academic year 2024/2025 and the sampling used cluster random sampling technique. From the results of the draw, VIII 1 class of 32 students was obtained as an experimental class that followed learning using the Reciprocal Teaching model assisted by liveworksheet and VIII 10 class of 32 students as a control class that followed conventional learning. The results revealed that the experimental class had an average post-test score of 76.63, while the control class obtained an average posttest score of 68.13. The results of hypothesis testing using independent sample t-test with a significance level of 0.05 showed a significance value (sig.) of 0.002 where $0.002 < 0.05$. This indicates that there is a significant effect of applying the Reciprocal Teaching model assisted by liveworksheet in improving mathematical problem solving skills. Based on this, it can be stated that the mathematical problem solving ability of students who are taught using the Reciprocal Teaching model assisted by liveworksheet is higher than the mathematical problem solving ability of students who are taught with conventional learning.

Keywords: *model reciprocal teaching, liveworksheet, math problem solving ability*