

# Analogy-Based Selective Problem Solving Learning on the Skill to Solve Word Problems

Oleh :

Isna Fauziyah Nurroini

Dosen Pembimbing : Mohammad Faizal Amir, M.Pd

Pendidikan Guru Sekolah Dasar  
Universitas Muhammadiyah Sidoarjo  
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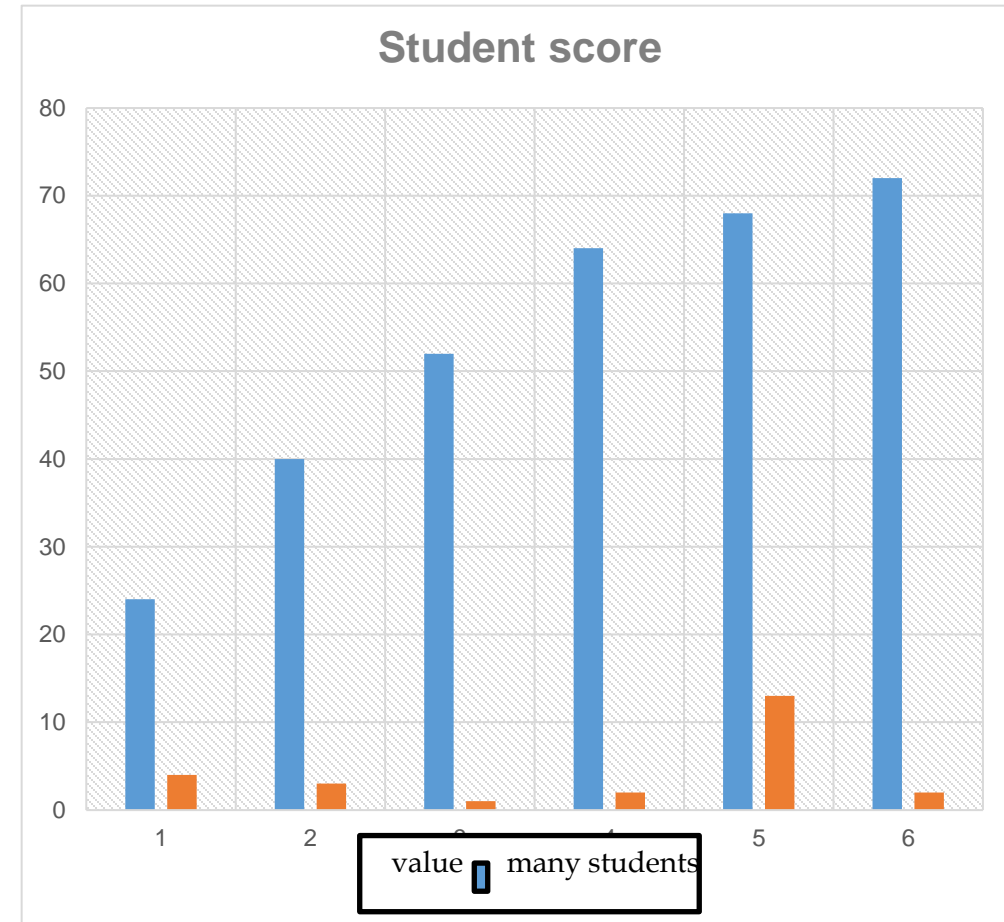
# INTRODUCTION

- ❖ Word problems play an important role because they provide problems in everyday situations. Thus, it can help students to analyze mathematical problem solving related to everyday life
- ❖ Analogy thinking is the cognitive basis for understanding and perceiving similarities in context. The analogy can challenge students who often must convey what is emphasized in class
- ❖ Selective problem solving in learning is the most effective concept to realize knowledge transfer in meaningful mathematics learning. SPS is the use of a learning activity model by training students to face various problems, either individual or group problems to be solved alone or together

# Method

## Quantitative approach

- This research uses quantitative methods with experimental types
- The subjects of this study were fifth grade elementary school students of SDN 188 Gresik, The research subjects consisted of 25 students
- This research instrument uses tests, because it measures students' ability in problem solving. The written test is used as written data on student work on the SPS test questions, the written test is in the form of 5 question items.



# Result

- Based on the results of student work obtained from 25 students, 4 students scored 24, 3 students scored 40, 1 student scored 52, 2 students scored 64, 13 students scored 68 and 2 students scored 72.
- According to research that has been conducted from 25 students, 68% of students were able to solve posttest questions and 32% of students were unable to solve selective problem solving posttest questions. Students who are able to solve problems by understanding word problems that have been given by researchers and can answer according to the instructions that have been given. Students who are unable to have difficulty in understanding the word problems given, so that students cannot solve the instructions given by the researcher.

# DISCUSSION

In connection with the selective problem solving ability of mathematics students, the role of the teacher is very important to form students who have good problem solving skills, so as to obtain satisfactory learning results and the learning objectives set can be achieved. Teachers as facilitators need to design a learning process that can develop skills in selective problem solving. The Selective problem solving learning model requires students to solve problems by linking the knowledge they already have so that it makes students' memories strong and learning transfer is easily achieved, so that the process of linking new information with relevant and appropriate concepts makes students strong to learn easily achieved.

# CONCLUSION

Based on data analysis and discussion, it can be concluded as learning using selective problem solving (SPS) model, to improve the ability of grade V students of SDN 188 Gresik and help students to solve their mathematics. Meanwhile, SPS learning has a great level of influence on the problem-solving skills of elementary school students. Selective problem solving learning model can achieve learning completeness, the ability to solve math word problems of students obtained from learning outcomes can carry out word problems, but not yet able to see as a whole, selective problem solving ability in students able to understand the problem.

The application of selective problem solving learning methods is very good because students can be confident in solving test questions and selective problem solving learning is more active to improve student abilities. The following are the objectives of having problem solving skills including: Train individuals to be able to face problems well, train individuals to be able to find the best steps that can be taken to be a solution to the problem at hand, train individuals to be able to act on new situations appropriately and adaptively, train individuals to be more courageous in making decisions that are considered the most appropriate and train individuals to be more thorough in researching and analyzing a problem by looking at all the possibilities and perspectives that exist.

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