



The Effect of Treffinger's Learning Model on Students' Mathematical Creative Thinking Ability

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Introduction

Education is one of the important things in measuring the progress or retreat of a nation or state. The progress and retreat of a nation will be determined by the advancement and retreat of education from a nation (Wahab et al., 2021: 38). In this education, there is mathematics which is a science that studies logic, forms, structures and concepts which are divided into several branches in each learning that is logical, systematic and consistent. Then the most important thing is to have a high level of creative thinking ability in solving mathematical problems. A learning model that supports improving creative thinking skills in learning mathematics is to use the treffinger learning model. According to Tampubolon (2018), the treflex type learning model is a learning model that invites students to think creatively in solving problems by paying attention to important facts in the surrounding environment, then having ideas and choosing the right solution.

Research Objectives

To find out the influence of the treffinger learning model on mathematical creative thinking skills

Research Methods

- Type of research:** this study is a quantitative research using a quasi-experimental research design.
- Research variables:**
Independent variable (X): treffinger learning model
Bound variable (Y): creative thinking ability
- Research sample**
The sample in this study is 29 students in class VIII A (experimental class) and 30 students in class VIII B (control class)
- Time and place of research**
Time: May – June 2024
Place: SMP Negeri 4 Narmada

Conclusion

Based on the results of the research and discussion, it can be concluded that the learning process using the treffinger learning model can affect students' mathematical creative thinking ability rather than using the conventional learning model. So, it is recommended to use the treffinger learning model during the learning process.

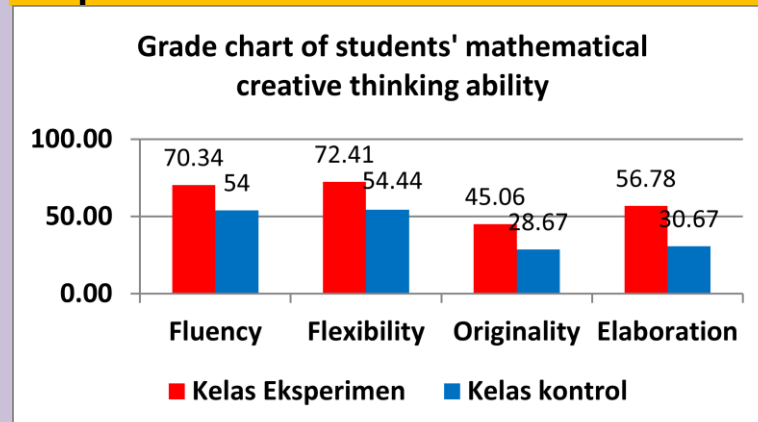
Results & Discussion

Results

Hypothesis test results

Kelas	Taraf sig.	Nilai sig.	t_{hitung}	t_{tabel}	Keputusan
Eksperimen & Kontrol	0,05	0,001	6,28	2,00	Terdapat pengaruh

Graph of research results



Discussion

Based on the results of the hypothesis test, it can be known that the significant value is $0.001 < 0.05$ or $(t_{calculation} = 6,28) \geq (t_{tables} = 2,00)$. Thus, the results were obtained that there was a significant difference in the average score of creative thinking ability of students in the experimental class who used the treffinger learning model and the control class that used the conventional learning model. This shows that students' mathematics learning with the treffinger learning model has an influence on students' creative thinking ability.

Bibliography

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