Application of the Jarimatika Method to Improve Student Learning Outcomes in Grade 3 Mathematics Subjects at State Elementary School 4 Sambik Bangkol Academic Year 2022/2023

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Abstract

This research aims to determine whether the application of the Jarimatics method can improve student learning outcomes, in class III mathematics subjects, the subject of this research is class III at SDN 4 Sambik Bangkol sub-district. Gangga, with a total of 20 students. 8 male 12 female students, in this study used 2 cycles, each learning cycle used 2 meetings or 1 cycle was carried out for 2 days in the learning process with 2x35 minutes in 1 meeting. In this research, the method used is the classroom action method (PTK) carried out in 2 cycles, each cycle consisting of four stages, namely the planning stage, implementation stage, observation stage and reflection. In this research, data about student learning outcomes was obtained from the results of evaluations/tests carried out at the end of each cycle, while data about student and teacher learning activities in class were obtained from observation sheets. From the results of this research, it can be concluded that the application of the Jarimatika method can improve student learning outcomes in Grade 3 Mathematics at SDN 4 Sambik Bangkol. This increase can be seen from the students' average score of 54 in cycle 1 and increasing to 84.5 in cycle II, while the percentage of student learning completeness was 20% in Cycle 1, increasing to 100% in cycle II.

Keywords: *Jarimatics Method, Learning Results*

INTRODUCTION

According to Dzurriyatin Thoyyibah, learning using the Jaritmatics method is learning that is packaged in the form of a game which will have a big influence on the development of students. Through games, students can discover their own strengths and weaknesses, recognize their interests and also find ways to complete tasks and practice concentration. Learning using the Jarimatics method is also considered ideal because it can involve emotions, the whole body and all five senses. The application of the mathematical method must be equipped with the correct cultivation of basic concepts such as the concept of numbers, number symbols and basic arithmetic operations. From the opinion above, it can be concluded that Jarimatika is a counting technique that uses the fingers to solve problems.

Based on the results of initial observations at SDN 4 Sambik Bangkol, it can be seen that the use of learning methods is less creative and teachers are more inclined to use classical methods so that students find it difficult to understand multiplication material and involve low scores, so several problems are found in mathematics learning seen from students, including students Difficulty in calculating multiplication with large numbers so that in the multiplication material the learning objectives have not been achieved, skills in completing multiplication calculation operations are still low. The mid-semester test scores, where the average score is 60 KKM for mathematics, show that many students have not met the KKM.

It is known that most students are not interested in mathematics lessons because they are considered less interesting and boring, so the mathematics scores obtained by students are less than the KKM standard. The following are the unsatisfactory odd semester grades in mathematics as seen from the average score of 49.25, out of 20 students only 2 students met the KKM standard, while 18 students got grades below the KKM in the odd semester exam, based on factors- Factors resulting from semester grades that influence low student learning outcomes, then the researchers discussed with the class teacher the appropriate method to overcome this problem, namely applying the Jarimatics method to mathematics learning to improve student learning outcomes. Through discussions conducted by researchers with class 3 teachers, the researchers offered to use the Jarimatika method as the right solution to overcome learning problems in class III at SDN 4 Sambik Bangkol for the 2023 school year.

From the description above, the researcher can solve problems using the Jarimatika method. The researcher chose this method because it is very suitable for student development, fun and can develop students' motivation to learn to count. Thus, based on the description above, the researcher is interested in conducting research with the title: "Application of the Jarimatika Method to Improve Student Learning Outcomes in Grade 3 Mathematics Subjects at State Elementary School 4 Sambik Bangkol for the 2022-2023 academic year.

RESEARCH METHOD

The type used in this research is classroom action research (PTK). Classroom action research is action research carried out in the classroom when learning takes place. The information collection techniques used in this research depend on the type of information obtained, especially through interviews, observations, documentation and tests.

RESEARCH RESULT

Table. 4.1 Students' Pre-Test Results

No	Student's name	Mark	Complete	Not finished
1	Alena Shara Riski	10		✓
2	Amelda Novita Sari	20		✓
3	Ayuna Febrianti	30		✓
4	Azila Aprilia	40		✓
5	Azini Nurul Aini	35		✓
6	Azizan Ariawan	15		✓
7	Dessmil giantara	5		✓
8	Faezul Azan M.	5		✓
9	Habizar Zaenul A.	5		✓
10	Juita Zulpatin	30		✓
11	Milna Aprianti	5		✓
12	Misniati	10		✓
13	Paerul Ilham	5		✓
14	Pebian Denistan	30		✓
15	Rizki Agung K.	35		✓
16	Princess Saskia	25		✓
17	Selvia Zohriatun A.	50		✓
18	Silpa Paeti	30		✓
19	Zerul Hamdil S.	25		✓
20	Azin Idayanti	15		✓
Amount		415		
Average		20.75%		
Percentage		?		

Table 4.2 Mathematics Scores in Cycle 1

No	Student's name	Mark	Complete	Not finished
1	Alena Shara Riski	55		✓
2	Amelda Novita Sari	75	✓	
3	Ayuna Febrianti	45		✓
4	Azila Aprilia	45		✓
5	Azini Nurul Aini	75	✓	
6	Azizan Ariawan	45		✓
7	Dessmil giantara	45		✓
8	Faezul Azan M.	45		✓
9	Habizar Zaenul A.	45		✓
10	Juita Zulpatin	75	✓	
11	Milna Aprianti	50		✓
12	Misniati	55		✓
13	Paerul Ilham	45		✓
14	Pebian Denistan	50		✓
15	Rizki Agung K.	75	✓	
16	Princess Saskia	50		✓
17	Selvia Zohriatun A.	50		✓
18	Silpa Paeti	55		✓

19	Zerul Hamdil S.	45		✓
20	Azin Idayanti	55		✓
	Amount	1,080	4	16
	Average	54		
	percentage		20%	80%

Table 4.3 Mathematics Scores in Cycle II

No	Student's name	Mark	Complete	Not finished
1	Alena Shara Riski	95	✓	
2	Amelda Novita Sari	95	✓	
3	Ayuna Febrianti	95	✓	
4	Azila Aprilia	95	✓	
5	Azini Nurul Aini	80	✓	
6	Azizan Ariawan	70	✓	
7	Dessmil giantara	65	✓	
8	Faezul Azan M.	80	✓	
9	Habizar Zaenul A.	85	✓	
10	Juita Zulpatin	85	✓	
11	Milna Aprianti	85	✓	
12	Misniati	90	✓	
13	Paerul Ilham	80	✓	
14	Pebian Denistan	75	✓	
15	Rizki Agung K.	90	✓	
16	Princess Saskia	85	✓	
17	Selvia Zohriatun A.	75	✓	
18	Silpa Paeti	90	✓	
19	Zerul Hamdil S.	80	✓	
20	Azin Idayanti	95	✓	

	Amount	1,690	20	
	Average	84.5	100%	

The cycle flow is based on the results of research conducted using the Jarimatika method. Research is carried out starting from cycle 1 and cycle 2 using the Jarimatika method to

Test results answering multiple choice questions and filling in for class III students at SDN 4 Sambik Bangkol, Gangga District, North Lombok Regency. After carrying out the learning process by applying the Jarimatika method, it has increased and shown activeness. This statement can be proven in the research results which show the average score and completeness in mathematics lessons on multiplication material in the form of multiple choice questions and filling in for class III students at SDN 4 Sambik Bangkol District. Gangga, North Lombok Regency. The conclusion of the results of this research is that by applying the Jarimatics method, student learning achievement in multiplication calculation operations can increase as seen from the students' abilities in cycle 1 with an average score of 54 to 84.5 at the end of cycle 2,

student participation in active mathematics teaching and learning in cycle 1 was 62. .5% in cycle 2 becomes 100% student absorption at the end of the cycle is said to have completed learning.

The increase in mathematical ability in multiplication material is indicated by the average value of cycle 2 of 84.5% being in the good category. Based on the results of the research above, it is proven that the application of the Jarimatiak method is considered successful and can improve multiplication ability in class III mathematics subjects at SDN 4 Sambik Bangkol Gangga District, Lombok Regency Ut

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