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IMPROVEMENT OF UNDERSTANDING OF THE NONCONCEPT USING THE WOOL YARN MEDIA IN CHILDREN

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Abstract

This study aims to examine the increase in understanding the concept of numbers using wool yarn media for children. The design of this study used a quasi experimental design using nonequivalent control group design. The data obtained was collected using the observation method using wool yarn media. The analysis of used the MANOVA for the hypothesis testing. Based on the results of the hypothesis concept of understanding numbers using thread media there are results of $0,000 < 0.05$ in children. It was concluded that understanding the concept of numbers had an increase in using wool yarn media for children.

Keywords: *concept of numbers, wool thread*

Introduction

Education needed by various levels of society is needed from early to higher education. Various activities can be carried out by children with parents as the beginning of learning in the family environment, such as introducing numbers to children, learning to count, recognizing letters according to the age of child development. Various activities can be carried out by children with parents as the beginning of learning in the family environment, such as introducing numbers to children, learning to count, recognizing letters according to the age of child development.

In cognitive development in early childhood can be introduced to the concept of numbers to children. The concept of numbers is taught through numbers adjusted for the development of children aged 3-4 years by introducing the concepts of numbers 1-10. Media is a tool used to support children's learning resources. Innovation provided by using thread media, the media is used to support children's learning so that it is interesting in learning activities.

Based on the conditions in the field this activity is relevant and appropriate to be implemented in dance activities as activities that can stimulate the gross motor skills of children. Because dance activities are rarely given to children, this needs to be developed for children

The formulation of the problem in this study is how to increase understanding of the concept of numbers using thread media in children. The purpose of this study is to find out how to improve understanding of number concepts by using thread media in children

Learning and play activities carried out by children need an understanding given by the teacher to children. According to Winkel (2004: 274) that understanding is an ability to capture the meaning and meaning of the material being studied.

Every learning needs to understand a concept, it is the basis for understanding the lesson. Understanding the concept of numbers is the planting of basic concepts that can be a bridge that can connect children's mindsets that are still concrete to abstract. In the period of preprimary child learning and starting to apply basic concepts to the mathematical period the child applies the initial basic concepts to help children understand more complex concepts in mathematics.

The concept of numbers is a design of knowledge in understanding a collection of numbers and asking the value of many members of an object in mathematics (Inra: 2012). According to Inawati (2011: 4) that recognizing the concept of numbers in early childhood is the basis, if the basic concept of recognizing the concept of numbers given to children is less mature, then the child will have difficulty in recognizing the concept of numbers at a later stage.

According to Khadjiah (2016: 124), media is everything that can be used to channel messages from the sender of the message to the recipient of the message. Media teaching is divided into two parts, namely media in a narrow sense and media in the broadest sense, media with a narrow meaning is teaching media only includes media that can be used effectively in a planned teaching process, whereas in broad sense it is not a medium that

includes electronic communication media complex but includes simple tools. Yarn wool is a medium that is used as a medium to support learning in understanding the concept of numbers for children. provide a definition of the learned through the wool thread media. concept of numbers for children in a variety of ways, the method used with this wool thread children are asked to follow the form of numbers that have been provided. So that children not only know, but the concept of numbers can be learned through the wool thread media.

Research Methods

Study was conducted using the research design *Quasi Experimental*. This study uses *Nonequivalent Control Group Design*, where at the time of this experimental study it was divided into two groups of objects that had the same characteristics and characteristics that were similar, consisting of the experimental group and the control group. Following is the design chart or research design (Sugiyono, 2009: 116).

The study *quasi experimental design* used was *pre- and posttest design*, researchers determined the experimental and control groups, gave *pretest* to both groups, gave treatment only to the experimental group, then gave *posttest* to the two groups to distinguish the influence of the treatment.

Data analysis techniques with homogeneity test using the F test. And the normality test used *Kolmogorov-Smirnov (KS)* and *test Shapiro Wilk* with SPSS version 22. Statistical analysis used MANOVA (*Multivariate Analysis of Variance*) namely test to see how the variables influence free in research on the dependent variables Together

Research Results and Discussion

The results of understanding the concept of numbers can be seen through a comparison table of group averages on the variable understanding of the concept of numbers in the initial and final observations. Comparison of the mean of the control and experimental groups in this study, as follows:

Table 1. Comparison of Average Scores of Control Groups and Experiments Understanding the Concept of Numbers

	Observation Early	Observation	Change in
Control Groups	12.16	14.78	2.62
Experimental Groups	11.81	12.91	1.1

Based on the data above, the increase in the average group in the initial and final observations of the experimental group is greater than the control group $2.62 > 1.1$. This is because the experimental group received treatment in the form of understanding the concept of numbers by using the media wool, with the media children are more attracted to follow the activities of menial number

Conclusions and Recommendations

Based on data from the study in the control group and the experimental group obtained during the research and data analysis MANOVA (Multivariate Analysis of Variance), it can be concluded that understanding the concept of numbers increases by using wool yarn media. This is shown in the results of hypothesis testing with MANOVA with the F test that the skills produced are 23.577 with a value (sig .000).

The results of the research that have been conducted by providing an understanding of the concept of numbers with wool yarn media, so that they can be applied as supporting learning. This is to stimulate children so that understanding the concept of child numbers can be applied to learning. In addition, with wool yarn media, it can be of interest to children so that it is easy to recognize the numbers of the

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