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ANALYSIS OF LEARNING STRATEGIES IN "FUN MATH VIDEO" TO INCREASE CHILDREN'S INTEREST IN LEARNING MATHEMATICS

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Abstrak

Penelitian ini dilakukan dengan tujuan untuk menganalisis isi dari video dari channel youtube *Homeschool Pop*, dengan video yang berjudul "*Fun Math Videos!*" di dalam video tersebut mengandung strategi pembelajaran yang dapat menarik minat anak untuk belajar matematika. Penelitian ini menerapkan metode deskriptif, dimana metode ini digunakan untuk menganalisis isi. Penelitian ini juga menggunakan metode observasi dan bersumber dari video youtube berjudul "*Fun math videos*". Kebanyakan orang tidak menggemari matematika dan beranggapan matematika sesuatu yang membosankan dan tidak menyenangkan. Bayangan mereka tentang matematika adalah angka-angka yang rumit, rumus-rumus yang sulit dihapal dan susah dimengerti. Namun dengan adanya pembelajaran Matematika menggunakan media audio visual dapat mempermudah anak memahami pembahasan tersebut dengan mudah. Jadi, pembelajaran Matematika menggunakan media audio visual ini sangat direkomendasikan untuk menemani anak dalam belajar Matematika, karena pembahasannya lebih mudah dimengerti. Dalam kemajuan teknologi yang terus berkembang seperti saat ini, di butuhkan berbagai sarana dan prasarana yang mampu menunjang proses pendidikan agar pembelajaran berjalan maksimal. Kemajuan teknologi saat ini dapat dilihat dari berkembangnya aplikasi-aplikasi yang mendukung kegiatan sehari-hari. Salah satu aplikasi yang banyak digunakan oleh banyak masyarakat khususnya di Indonesia, adalah Youtube. Salah satu cara untuk mencapai hasil belajar yang maksimal yaitu dengan cara memanfaatkan media yang ada di youtube sebagai metode pembelajaran yang menyenangkan. Media pembelajaran yang ada di youtube merupakan solusi terbaik dalam mengatasi kesulitan anak selama kegiatan pembelajaran. Karena belajar menggunakan tambahan media youtube, pembelajaran akan menjadi lebih menarik sehingga dapat menumbuhkan minat belajar anak dalam belajar matematika dan dan dapat memperlancar pemahaman anak dalam mengingat materi pelajaran, Dengan media youtube pembelajaran matematika menjadi menyenangkan. Seperti di dalam video *"Fun Math Videos!"* Yang di upload oleh channel youtube *Homeschool Pop* Terdapat ilustrasi dan gambar yang berwarna, sehingga dapat menarik perhatian anak, materi yang disampaikan lebih mudah dimengerti dan anak anak dapat memahami caranya lebih mudah.

Abstract

This research was conducted to analyze the content of a video from the Homeschool Pop youtube channel, with a video entitled "Fun Math Videos!" The video contains learning strategies that can attract children's interest in learning mathematics. This study applies a descriptive method, where this method is used to analyze the content. This study also uses the observation method and is sourced from a YouTube video entitled "Fun math videos". Most people don't like math and think math is boring and unpleasant. Their image of mathematics is complicated numbers, and formulas that are difficult to memorize and difficult to understand. but with the existence of Mathematics Learning using audio-visual media can make it easier for children to understand the discussion easily. So, learning Mathematics using audio-visual media is highly recommended to accompany children in learning Mathematics, because the discussion is easier to understand. In the advancement of technology that continues to develop as it is today, various facilities and infrastructures are needed that can support the educational process so that learning runs optimally. Current technological advances can be seen from the development of applications that support daily activities. One application that is widely used by many people, especially in Indonesia, is Youtube. One way to achieve maximum learning outcomes is by utilizing the media on YouTube as a fun learning method. Learning media on YouTube is the best solution for overcoming children's difficulties during learning activities. Because learning uses additional YouTube media, learning will become more interesting so that it can foster children's learning interest in learning mathematics and can facilitate children's understanding of remembering subject matter. With YouTube media, learning mathematics becomes fun. Like in the video "Fun Math Videos!" Uploaded by the Homeschool Pop YouTube channel, there are colorful illustrations and pictures, so they can attract children's attention, the material presented is easier to understand and children can understand the method more easily

INTRODUCTION

Nowadays, most people do not like math and find it boring and not fun. Their picture of mathematics is complicated numbers, and formulas that are difficult to memorize and difficult to understand. Mathematics is also often understood as something absolute so it seems as if there is no way to solve a problem. The myth circulating in society today is that mathematics is a difficult and boring subject. This wrong myth has a big impact so some students who are allergic to math don't even want to learn math. In addition, the factors that cause mathematics subjects to be less attractive to students, namely learning that is still monotonous is still teacher-centered, namely the transfer of information from teacher to student.

As a result, the majority of students get bad grades for this field of study, not because students are unable to do it, but because students have been afraid from the start so they are never lazy to try and learn mathematics. Even when students get bad grades they make it normal. Because math lessons are considered trivial by students. With students' assumptions like this, of course, the teacher must have a more interesting teaching method so that students do not take mathematics lessons lightly. According to Dimyati (Susanto, 2013), learning is a programmed teacher activity in instructional design, to make students learn actively, which emphasizes providing learning resources. Learning is the teacher's activity in designing teaching materials so that the learning process can take place effectively, namely students can learn actively and meaningfully.

In the advancement of technology that continues to develop as it is today, various facilities and infrastructures are needed that can support the educational process so that learning runs optimally. Current technological advances can be seen from the development of applications that support daily activities. One application that is widely used by many people, especially in Indonesia, is Youtube. Youtube is an online video and the main purpose of this site is as a medium for searching, viewing, and sharing original videos to and from all sources of the world through the web (Budiargo, 2015: 47). Youtube is an audiovisual media that presents images, animations or sound and videos so students can see and hear (Yuan Anisa, 2022). One way to achieve maximum learning outcomes is by utilizing the media on YouTube as a fun learning method.

Learning media on YouTube is the best solution for overcoming student difficulties during learning activities. Because learning uses additional YouTube media, learning will become more interesting so that it can foster students' interest in learning mathematics and can facilitate students' understanding in remembering subject matter. This can help the world of education in shaping students to have independent and creative characters. With YouTube media, learning mathematics, especially in elementary schools, is fun. According to (Rusman, 2010: 326) fun learning (joyful instruction) is a learning process in which there is a strong relationship between the teacher and students, without any feelings of being forced or pressured. In other words, fun learning has a pattern of good relationships between teacher and child. Fun learning or also termed joyful learning is a strategy, concept, and learning practice that

synergizes with meaningful learning, contextual learning, constructivism theory, active learning, and child development psychology (Zulvia Trinova, 2012).

Fun learning can make students happy and motivated to follow it so with such a learning process it is very important to create superior students. In this fun learning process, teachers and students are required to be equally active in the teaching and learning process. Students are allowed to develop their learning strategies by interacting, arguing, and negotiating with friends or teachers. Gradually students are guided to the concept of problem-solving, with an emphasis on process. While the teacher only acts as a facilitator. By practicing learning using additional media on YouTube, it is hoped that mathematics will no longer be a scary subject. So that the notion that learning mathematics is scary and boring can gradually disappear from students' minds, and learning mathematics can become learning that everyone enjoys.

RESEARCH METHODOLOGY

This study applies a descriptive method, where this method is used to analyze the content. This study also uses the observation method and is sourced from a YouTube video entitled "Fun math videos" which is broadcast on the Homeschool Pop YouTube channel.

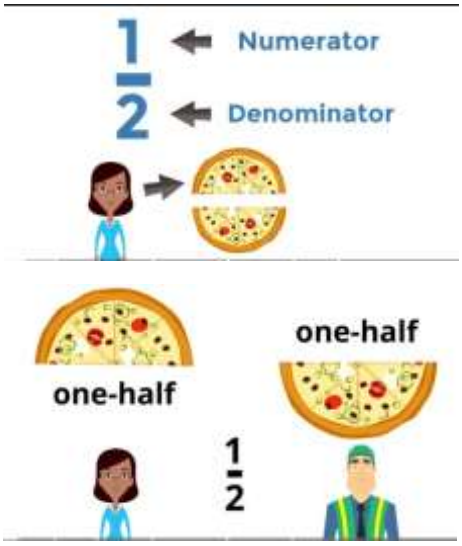
DISCUSSION AND RESULTS

Every human being in life will always need mathematics, from simple to complex daily activities. However, for most people, it turns out that mathematics is still considered a difficult subject and even frightening. According to the analysis of experts, mathematics can be considered that way because of many factors, for example, the characteristics of mathematics itself which consists of many numbers, formulas, and symbols which cannot be considered easy. In addition, there are also other influencing factors such as wrong and boring teaching methods, and limited facilities and infrastructure to support learning mathematics itself. If in learning mathematics, the teacher only uses the lecture method and asks children to constantly memorize formulas, children will think that mathematics is a rigid and boring science. This will certainly result in a lack of interest in learning children mathematics. This will certainly result in a lack of interest in learning children mathematics.

Students' interest in learning mathematics is important considering the role of mathematics in every dimension of life. Tafonao (2018) states that learning media is one of the most important parts of learning to achieve goals. One way to produce an interesting mathematics learning process is to use video as a source and learning media. The use of interactive media for learning mathematics has a significant effect on increasing students' interest in learning mathematics. Various research results show that people are more interested in learning using video media than learning through text media and still images (Fadhli, 2015). Learning that is done with effective video media makes children able to accept the learning given to them (Putri, 2012).In today's digital era, the internet makes it easy to access information and provides many benefits, including in the world of education. One of the YouTube videos "fun math video"

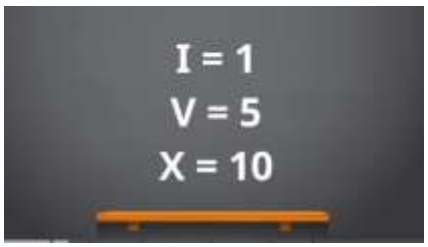
explains fun tricks and ways that can help in learning Mathematics. In this video, the explanations used are adapted to the characteristics of children who like pictures, illustrations, and use language that is also easy for children to understand. The video explains tricks for working with fractions, roman numerals, division, multiplication, even and odd, finding circumferences, and 3D shapes.

1. Fraction



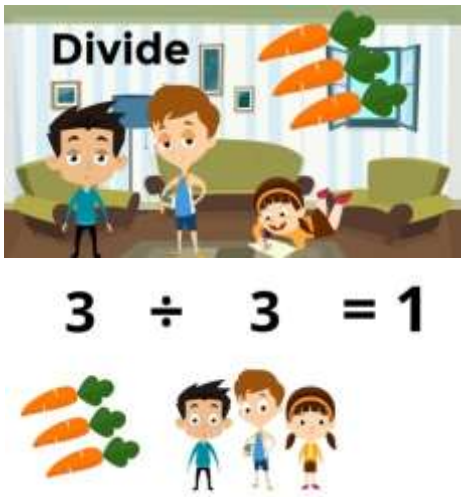
The first topic that the researcher examines in this video is fractions. In the material about fractions this time, fractions are defined as something that shows part of the whole. In the example problem it says there is a woman named Cindy, Cindy really likes pizza, then her friend Chomsky comes, Chomsky also likes pizza and he is a little hungry, so maybe Cindy won't eat the whole pizza now. They will split it, they cut the pizza in half and each of them gets half of the pizza. Now there's a total of two pizza parts, and Cindy only got one, that's the part we're talking about. Cindy gets only 1 part of the pizza, which is called the quantifier, the quantifier is placed at the top of the division, while the bottom is called the denominator, the denominator tells us how many parts we are talking about, in this case, we have a total of 2 parts of the pizza where Cindy has one part of the pizza, the other part, of course, belongs to Chomsky. By using pizza as an example as described, it will be easier for children to imagine and understand the fraction material itself. So that in the future the child can exemplify material about fractions by imagining it with other objects around him.

2. Roman Numerals



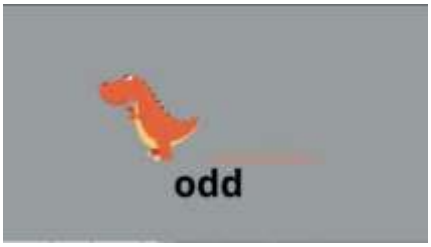
Roman numerals are a different way of writing numbers and were used long ago in ancient Rome. The Roman numerals explained are the Roman numerals I which is the number 1, the letter V the Roman numeral which means 5, and the letter X which means the Roman numeral 10. So, there are only 3 core numbers to remember, namely: I: almost looks like one (1), that's how you can remember the Roman numeral for one. The V is in five when you spell the number five, you see there's a V in it, so when you think of V, you know there's a V in the spelling of five, so the V has to be five. Now ten is X and we can't think of anything to remind us of it so no memorization just when you see X it means ten.

3. Division



The next material explained in this video is about division. In this video, the division is taught through a story about a boy named Ethan. Ethan loves carrots so much that he even piles them up and collects them for himself to eat. Ethan likes carrots because they are so crunchy and delicious to eat. Ethan has two friends named Kevin and Cloe, they are both hungry and then want to ask about Ethan's carrots which are the perfect snack. However, Ethan's house only has 3 carrots, so they have to share the carrots equally among 3 people. After finding out, each child gets 1 carrot.

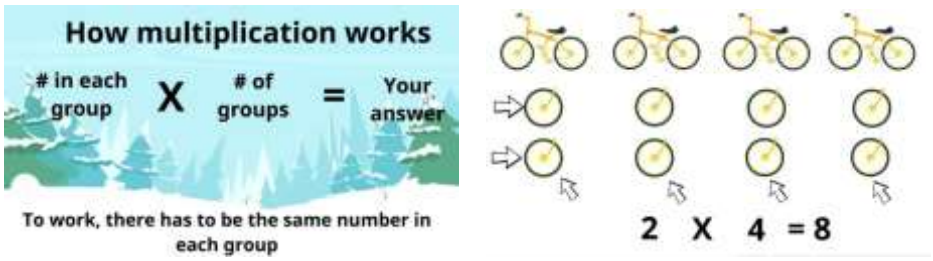
4. Even and Odd Numbers



In this video, the introduction of odd and even numbers is taught using illustrations with the help of dinosaur images. In the first picture, you can see 1

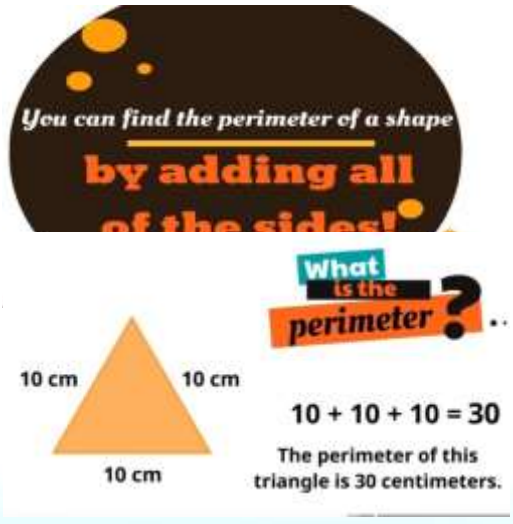
lonely dinosaur. The dinosaur appears alone, therefore it is called an odd number. Then in the second picture, you can see pictures of 2 dinosaurs. It turns out that the first dinosaur already had friends and could talk to others, that's why it was called an even number. What happens if one more dinosaur arrives? Can it be called an even number? In this video, it is explained that this cannot happen, because the third dinosaur is alone. After all, the 2 dinosaurs have become friends. Therefore three is an odd number. Numbers that have no friends are called odd numbers, and those that have pairs are called even numbers.

5. **Multiplication**



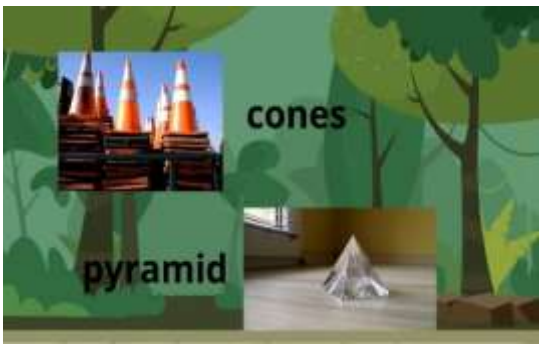
The process of solving multiplication problems is explained through illustrations of story problems about bicycle wheels. It is said that the bicycle wheel will be inflated. How to find out how many wheels need to be inflated if we have 2 bicycles and if each bicycle has 2 tires? Then the numbers we write with multiplication are the numbers in each group and then we write X which is the symbol for multiplication. The way to do the multiplication is the number in each X group with the number of groups = your answer. Of course, to do it there must be the same number in each group. Let's say a person has four bicycles and now each bicycle has two wheels. So, first, we write number 2, that's the number in each group, we're going to put an X symbol there, and count the number of groups there are four, so two times four, now let's skip the count to get the answer, two four six eight is our answer, there are eight wheels, two times four equals eight this is how multiplication works.

6. **Perimeter**



The length of the circumference can be measured by adding all the sides. As explained in the example mentioned, to find the perimeter of the first triangle we have to know how long the sides are, for example, each side of a triangle is 10 centimeters now remember to find the perimeter of a shape we need to know the distance around the entire shape so we just add them up the sides are 10 plus 10 plus 10 which is 30, it's amazing that the perimeter of this triangle is 30 cm. remember finding the perimeter of a shape can be done by adding up all its sides and the circumference of a shape is the distance around a shape.

7. 3D Shapes



The last material is learning about how to identify 3D shapes. But before explaining the 3D shapes, the video reviews 2D shapes again, which are old friends of 3D. This is because 3D shapes still have a relationship with 2D shapes. It is explained that the 3D shape is fat (has space) not flat like the 2D shape. Then after reviewing and remembering 2D shapes, start to enter 3D material. It mentions various shapes and examples of 3D shapes such as a ball, which is similar to a circle, which has the difference that in the spherical shape there is a space inside, for example, the earth where we live. Furthermore, it is also explained the second form, namely the shape of the cone, one example is the ice cream cone. The third is the shape of the pyramid, an example is a pyramid in Egypt. Fourth is the shape of the cylinder. The shape of the cylinder is very easy to recognize because there is a circular shape on the top and bottom, an example of a cylinder shape is a can and most jars. Fifth is the shape of the cube. A cube is a 3D shape of a square, it has 6 equal sides, examples are dice, and ice cubes. The last form is a rectangular prism (block) which is a 3D shape of a rectangular shape and has long and short sides, for example, bricks and tissue boxes.

DISCUSSION

Learning mathematics is indeed a terrible and boring thing for most people, especially children. If teaching mathematics is taught in a boring way too, then children will be increasingly lazy with mathematics. For this reason, it is necessary to have a learning strategy that can attract children's interest in learning mathematics. Technological developments at present can be used as media and learning resources, one of which is using learning videos from YouTube media. Youtube provides math learning resources for students to study which is good enough to be used as a student learning resource.

According to research results from researchers, learning mathematics using audio-visual media as taught in the Homeschool Pop YouTube channel "fun math video" is highly recommended for use in learning. The reason is that in the video the discussion of math material which is classified as difficult for children is taught using language that is adapted to the characteristics of children in general, the discussion of the material being taught also uses attractive colorful illustrations and pictures so that it can be interesting and makes it easier for children to learn mathematics and understand how.

CONCLUSION

The basic ability of mathematics for elementary school students is very important to pay attention to because basic abilities in mathematics can determine a child's ability to learn mathematics. therefore the discussion of difficulties and efforts to improve basic math skills is expected to be used as a solution or reference to improve students' abilities in learning mathematics. To make it easier for elementary school students to understand mathematics, interesting learning media is needed, one of which is using YouTube media. The utilization of Youtube in learning mathematics can be a potential source of learning.

The information contained on YouTube is very diverse so it can be useful in the current learning conditions. Like the videos analyzed by researchers. The video entitled "fun math", explains various learning strategies used so that children can enjoy mathematics. One example is learning material about fractions, which uses pizza as an example to make it easier for children to imagine and understand the fraction material. Likewise, for other learning materials, explanations are supplemented with questions containing colorful pictures which are certainly interesting for children so it is highly recommended to be used as learning resources and media. Making Mathematics more interesting and fun in the teaching and learning process is the best solution and can be a way that can be done to reduce children's fear of mathematics which is full of numbers and formulas that must be memorized. Because in the learning process the role of the media also plays a role as material for conveying material so that students can better understand what the teacher conveys.

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