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THE EFFECTS OF ACTIVATING PUPILS THROUGH A CREATIVE APPROACH IN ELEMENTARY SCHOOL MATHEMATICS CLASSES

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ABOUT ARTICLE

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Abstract: This article discusses the creative approach to the formation of the skills and competencies of elementary school pupils in mathematics, and shows the methods of solving calculation tasks through reasoning.

INTRODUCTION

Mathematical literacy is a person's ability to think mathematically about various life situations (contexts) and issues, to be able to express a given problem using mathematics, to be able to use mathematics to solve a problem, and to be able to use the obtained results to interpret and evaluate the solution to the problem. It includes concepts, algorithms, facts, and tools for describing, explaining, and predicting events. It helps people understand the place of mathematics in the world and make the informed judgments and decisions necessary for creative, curious, and self-reflective citizens of the 21st century. We are talking about the teaching of mathematics in primary education, the teaching methodology in the first stages, as well as the correct organization of classes. In order to successfully teach mathematics to elementary school pupils, a teacher who starts work must master the developed system of teaching mathematics, that is, the methodology of teaching mathematics in elementary grades, and on this basis, independently create should start working. The science of mathematics develops a person's intellect and attention, educates determination and will to achieve the desired goal. Mathematics is the basis of knowledge of the world, and it is important in the development of production, science and technology, revealing the unique laws of the surrounding events and phenomena. focused on the formation of competencies. It was created based on the requirements of the state education standard.

In order to improve mathematical literacy in elementary school pupils, a creative approach to tasks given in the field of science teaches them to think quickly mentally and to remember quickly in their

memory. The teaching process should be conducted in an unusual creative way. It should be carried out under the slogan "We learn by playing" and not under the slogan "Let's learn and play".

Mathematics is an important academic subject that pupils are exposed to from elementary school. Although math is often thought of as a subject that is only about memorization and following rules, it can also be a subject that fosters creativity. It is important for teachers to include creative activities and activities in their lessons to help their pupils develop creative thinking skills. The development of creative abilities in mathematics lessons is a necessary direction of education for elementary school pupils. By nurturing creativity, pupils can better solve problems, think critically, approach mathematical concepts from different perspectives. There are several forms and methods that pupils can use to develop their creativity in elementary math classes. There are several forms and methods that educators can use to develop pupil's creativity in elementary math classes. Open-ended tasks, group problem solving, extracurricular research, and experimentation help pupils develop critical thinking skills and problem-solving skills. By fostering creativity, pupils become not only well-rounded mathematicians, but also creative thinkers who can apply their skills to a variety of real-world situations. Developing pupil's creativity in elementary mathematics classes requires a more sophisticated approach that goes beyond traditional teaching methods. Incorporating games and ideas, open-ended tasks, real-world applications, group work, and art integration, teachers help their pupils develop creativity and critical thinking skills in addition to their math skills.

Mathematical literacy of pupils is the ability to interpret and apply mathematics in various situations encountered in their lives (construction, trade, medicine, travel, etc.), realizing the importance of mathematics.

According to research requirements, the following requirements are set for pupil's mathematical literacy:

1. Identifying the surrounding problems;
2. Expression of these problems in mathematical language;
3. It consists in solving these problems by applying mathematical facts and methods.

Exercise 1

Nadir and Bahrom were paid 20,000 soums for their work. Nadir worked for 3 hours, Bahram for 2 hours. How did they get the paid money?

We express the given exercise as follows.

$$3x+2x=20$$

$$5x=20$$

$$X=20:5$$

$$X=4$$

Answer:4

2. Find the value of the expression.

$$2045:5+161*73-27*13=$$

1) $2045:5=409$

2) $161*73=11753$

3) $27*13=351$

4) $409+161=570$

5) $1173-351=11402$

3. Exercise: A boy read three books. All of them consist of 653 pages.

Book 1 has 256 pages, book 2 has 58 pages less, how many pages does book 3 have?

We write the condition of the exercise as follows.

1 book-256 pages, 2 book-58 less pages, 3 book-?

Solution: 1).256	2).256	3).653
-58	+198	-454
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198 p	454 p	199 p

The general expression is $653 - ((256 - 58) + 256) = 199$

Answer: Book 3 - 199 pages.

4 Exercise

A detail is made by melting a piece of metal. If the scraps of metal produced during the preparation of 8 details are melted, one raw material can be obtained. How many details can be made from 64 raw materials.

Giving;

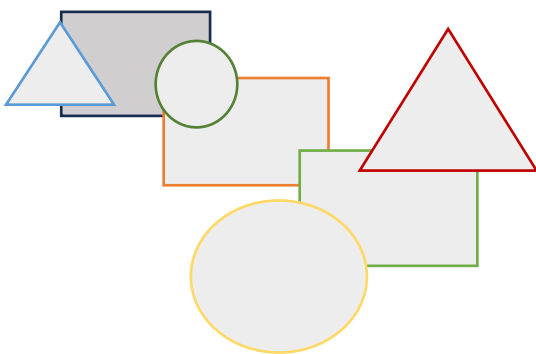
If you can craft 8 items for each raw material, you can make 8 items from 64 raw materials.

Solution: $64:8=8$

Answer: 8 details can be made.

Exercise 5. How many of each shape? We group the shapes by color.

A)

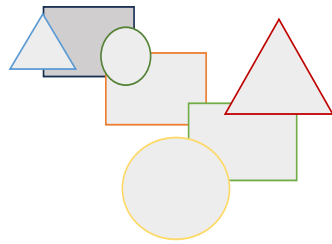


Total of squares: 3, 1 black, 1 red, 1 green

Triangles total: 2, 1 red, 1 blue

Circle total: 2, 1 green, 1 yellow

B)



Total of squares: 3, 1 black, 1 red, 1 green

Triangles total: 2, 1 red, 1 blue

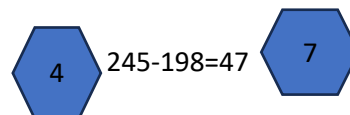
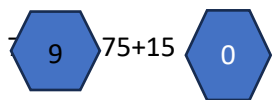
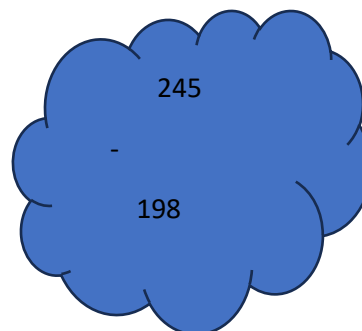
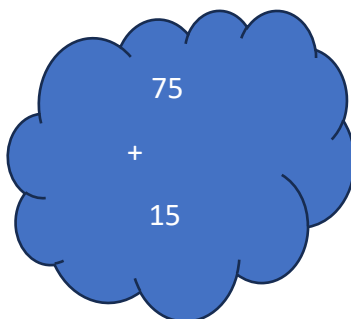
Circle total: 2, 1 green, 1 yellow

Exercises I have created.

6. 1) $75+15=$ 2) $245-198=$ Let's work with the example given below using the "Rain drop" method.

1)

2)



7. 10 warehouses were built on the left side of the road, and 8 less on the right side. Each warehouse on the left has 7 sellers, and each warehouse on the right has 4 sellers. How many sellers are there in total in the stores?

Given: To calculate the total number of sellers in stores, we can multiply them and find the sum.

Solution: 1) So we subtract 8 less magazines on the right side from 10 magazines on the left side to find the number of magazines built on the right side:

$$10-8=2$$

2) There are 7 sellers in each of the 10 stores on the left.

$$10*7=70$$

3) Multiply the number of stores on the right by the number of sellers

$$2*4=8$$

4) Add 70 sellers on the left side and 8 sellers on the right side

$$70+8=78$$

Answer: There are 78 sellers in all stores.

Mathematical literacy - enables everyone to understand the world of mathematics, to understand its role and importance in human life, and to make reasonable decisions by making reasonable decisions, which are necessary for an active, thoughtful and business-savvy person of the 21st century helps to form a wall.

CONCLUSION

In conclusion, the formation of pupil's creative abilities in elementary mathematics classes helps to solve and understand mathematics. At the same time, it increases pupil's mathematical intelligence through individual engagement with them.

REFERENCES

1. Jo'rayev P.X., Raximov B.X., Xomatov SH.F. Yangi pedagogik texnologiyalar. Muammoli ta'lim aasoslangan o'quv-metodik qo'tanma. -T.: Fan, 2005, 66 b.
2. Sultanov R. O., Yusupov M. R. (2020). Ta'limda matematika fanini o'qitishdagi muammolar va ularning yechimida axborot kommunikatsiya texnologiyalarining ahamiyati. O'zMU xabarlari, 2(1/2/1), 144-147.
3. Jumayev.E.M. Matematika o'qitish metodikasidan praktikum. – Toshkent:O'qituvchi,2004 – B328
4. Jumayev.M.E. Boshlang'ich sinflarda matemtika o'qitish metodikasidan laboratoriya mashg'ulotlari. - Toshkent:Yangi asr avlodi,2006. – B 256
5. Alijon, A., Xoldorovich, S. Z., & Abbosovna, G. M. kizi, MMA.(2022). Technology of Individualization of Learning. Spanish Journal of Innovation and Integrity, 6, 291-297.
6. Gofurova, M. A. (2020). Development of students' cognitive activity in solving problems. ISJ Theoretical & Applied Science, 1(81), 677-681.
7. Gafurova, M. A. (2021). Developing Cognitive Activities of Primary School Students based on an Innovative Approach. International Journal of Multicultural and Multireligious Understanding, 8(10), 236-242.
8. Gafurova, M. (2021). Intellectual and Cognitive Activities of School Pupils. The American Journal of Social Science and Education Innovations, 3(2), 447-450.
9. G'ofurova Mahfuza Abbosovna.Boshlang'ich sinf matematika darslarida tadqiqot metodlarini qo'llashning samaralari. Fardu.ilmiy xabarlar-Научный Вестник. Фергу, 2023/№2, 67-71
10. Gofurova M.A. Developing Cognitive Activities of Primary School Students based on an Innovative Approach / International Journal of Multicultural and Multireligious Understanding (IJMMU) ISSN 2364-5369, Vol 8, No 10, October 2021 P. 236-242 (23)Scientifik Journal Impact Factor 2021:6.862)