6-8 September 2018

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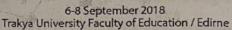
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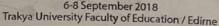




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Teaching mathematics by solving problems

Sonja CHALAMANI^{24a}, Marzanna SEWERYN-KUZMANOVSKA^{25b}

Abstract

The learning by solving problems itself represents a way which exerts a favorable impact upon the development of self-reliant and autonomous learning, whose aim is to activate the interest and the creative thinking process of the students. The modern-day teaching of mathematics requires a successful, creative and rational work with the students. In this paper is considered the influence problem teaching in mathematics, beginning from the earliest age, more precisely from the first grade elementary school, while taking into account the way of formulating the problems, initially by using images, and afterwards in the shape of textual task when the students have mastered the reading of texts. Taking into consideration what we know so far, scientifically examined and practically verified we can say that problem teaching represents turn in conceptualizing and realization of certain processes in teaching and it changes its presentation, it meets the new demands and numerous tasks in teaching and person's demands. It does not come to one or another teaching method or a teaching procedure. As a complete teaching system it includes more teaching methods procedures and means of teaching and it provides completely changed role of the teacher and the students. Different authors differently define problem teaching but essentially they all agree: it is a method that encourages the students to take the responsibility for their own learning by solving problems (which very often can be solved in many ways) and to make reflection of their own experience in learning. The main aim of this kind of teaching is solving problems. Problems appear when students come to certain obstacle in satisfying their wishes or in relating their goals. Teaching begins by setting the problem, it continues by setting hypotheses and it finishes by applying the acquired knowledge in new situations. Significance of this kind of teaching arises from its essence. Problem teaching should be conducted in present schools at high level: from acquiring knowledge to development of creative abilities of the students which means that the teaching process should be a process of thinking activity of students. Essentially the role of the teacher should be changed. They should not be only the ones that give the knowledge but also they should be associates and organizers of that kind of teaching by which students will independently solve problems and in that way they will develop abstract learning and the total mental capacity. Therefore, this teaching is also called problem development teaching by some authors. The main characteristics of learning by solving problems which we consider in this paper are: critical thinking (students analyze problem and they try to find solution by independent choice of appropriate strategies), group work (students work in small teams), authentic tasks (students work on real life problems) and direction by the teachers (they give support, they provide learning material and they direct the students in defining conducting and evaluating of their work). The problem teaching of mathematical matter introduces the students into an autonomous research work.

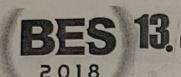
Keywords: problem, problem task

1. INTRODUCTION

One of the innovations which should enable the development of creative personalities within the education process is the problem teaching in mathematics. "This teaching challenges the

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students to "learn how to learn" and to seek solutions to the problems of the real world, which are used to encourage the curiosity and to inspire the studying of the mathematical matter" (Stojanovič, 2005:73).

Different authors define the problem teaching in different way, but in essence they all agree that it is method that encourages student to take responsibility for their own learning by solving problems and to give reflection of their personal experience during the learning. "Learning by solving problems is a kind of learning which requires from the student formulating of the problem task, solving the problem task by independent thinking activity, to find out what is missing for solving the problem task, to look for information and to reveal the solution" (Brković, 2011:234).

1.1. The teacher and the students in the problem teaching in mathematics

Teacher is a very important part in the teaching process. He should be led by the old wisdom that "The student is not a pot to be filled but a torch to be kindled". Instead of the prevailing teaching role, the teacher organizes and guides. He acts as "signpost" which opens possibilities for the students to check up the adequacy of their current knowledge. "Problem teaching by solving problems acquires great activity on the part of the students. This kind of teaching is much more difficult since they have to solve the tasks on their own by minimum help of the teacher" (Seweryn-Kuzmanovska, Chalamani, 2017:680). For successful realization of the problem teaching students should above all be capable of performing mental activities.

2. METHODOLOGY

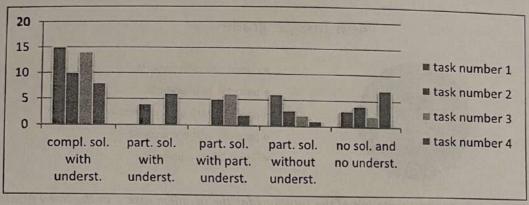
In order to determine the effects of application of the problem tasks in teaching mathematics it was conducted research in nine-year-primary-education school "Todor Angelevski" Bitola, R. Macedonia, in second and third grade. The classes were chosen randomly and in each of them there were 24 students. The objective of this research was to determine the influence of the problem tasks on the students regarding their understanding and solving.

After intensive work of the teachers with the students, in the terms of solving problem tasks previously conceptualized and chosen by us (authors) and worked under our mentorship in the period from September 2017 to March 2018, the research was completed with research test which was conducted in the last week of March 2018. In the research test were used the following problem tasks:

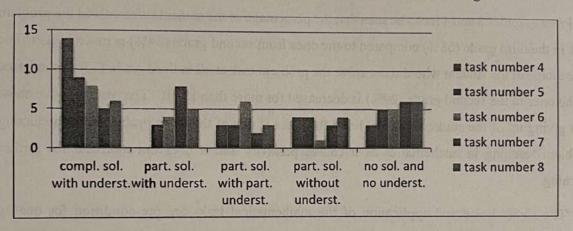


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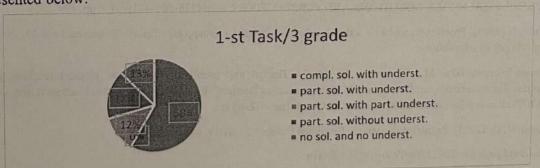
Graphic I. The results acquired by the research tests in the second grade



Graphic2. The results acquired by the research tests in third grade

3. DISCUSSION and CONCLUSION

From the above pillar diagram it can be seen that by increasing the difficulty of the problem task it is decreased the number of the students that understand and solved the tasks and it is increased the number of those ones who do not solve them, i.e. they very quickly give up from the tasks. Special emphasis is put on the result which we acquired from the forth task for second grade (task number 4), first one for third grade (task number 4) which can be seen in the graphics presented below.



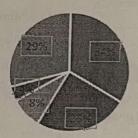
Graphic3. Percentage representation of the solutions for the problem task 4 in the second grade



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4-th Task /2 grade



- compl. sol. with underst.
- part. sol. with underst.
- part. sol. with part. underst.
- part. sol. without underst.
- no sol. and no underst.

Graphic4. Percentage representation of the solutions for the problem task 1 in the third grade

From graphics 3 and 4 it can be seen that the percentage of the students who solved the problem task in the third grade (58%) compared to the ones from second grade (34%) is much bigger. The percentage of the student who did not solve the problem task at all in third grade (13%) compared to the ones in the second grade (29%) is decreased for more than a half. The results above show that giving up of the students from solving the tasks is one of the basic problems in conducting problem teaching in mathematics as it causes passivity and it does not motivate for further learning.

"The right choice and application of the mathematical tasks are pre-condition for quality teaching of mathematics and good results of the students" (Chalamani, Seweryn-Kuzmanovska, 2018:202). Therefore for the tasks ape given a greater part of the teaching time and it is justified the demand: "the teacher to teach all the students how to solve tasks. It is a continuous process which stars from first grade of the primary school" (Klasnić, 2009:146).

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