NAME:

The Pangea Mathematical Competition in the 4th year of the 1st degree of Elementary school. Solution analysis.

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ABSTRACT:

This diploma thesis deals with the problems of mathematical competitions in the Czech Republic. Mathematical competitions are structured according to pre-selected criteria. On the basis of a comparative analysis of the data obtained from mathematical competitions for elementary schools, it is possible to create a coherent picture of the current situation. With this context, the author advovates a relatively young Pangea mathematical competition.

The main objective is to analyze data from the Pangea competition. Particular attention is paid to the tasks for the 4th year of the Pangea Primary School from the school round in the school year 2016/2017. The data obtained from 7 864 solverrs are analyzed both from the point of view of individual tasks and from the point of view of specific phenomena. Based on the data analysis, attention is paid to pupils' responses - the procedures for solving the individual tasks developed by 60 pupils of the 4th year of the 1st degree of non-selected schools. The work presents a number of new findings. All analyzes can be used both in the preparation of future teachers and in the development of tasks, as well as in teaching practice in the evaluation and support of mathematical competitions.

KEYWORDS:

Mathematical competition, problem solving, first grade pupil, difficulty of tasks