Abstract

The goal of the diploma thesis was to describe critical moments for solving systems of linear equations at the primary school. First, various methods of solving systems of two linear equations with two unknowns are summarized, the history of systems of linear equations is briefly outlined and the theme is described from the point of view of curricular documents. Based on the review of literature, the critical moments and types of mistake made by pupils are described. My own research used the mixed research strategy, where the main strategy was qualitative and the secondary strategy was quantitative. The research consisted of semi-structured interviews with four mathematics teachers, the preparation and realization of a questionnaire for primary school pupils and the creation, realization and analysis of a didactic test. The main results of the thesis consists of the description of the most frequent pupils' problems when solving systems of linear equations, the didactic analysis of textbooks and teachers' views of the topic and its teaching.

Keywords:
linear equations and their systems, pupils' problems, mistakes, semi-structured interviews, didactic test