

ABSTRACT

The theoretical part of the diploma thesis contains didactic analysis of word problems, that is the definition of a word problem, classification of word problems from various perspectives and methods of solving word problems, according to czech specialists in didactics of mathematics. The second part describes the teaching of mathematics at the secondary Waldorf schools with an emphasis on teaching in main lesson blocks.

The core of the work lies in the experimental part which consists of two sections. The first section describes the preparation, implementation and evaluation of educational experiments on the subject of word problems. The educational experiment was conducted in the first class of the Waldorf lyceum in Prague in the academic year 2014/2015. All days of the main lesson block are described. Part of the reflection of the teacher and an observer who participated in the entire main lesson block is the part of thesis.

The practical part continues with the pupil's solving strategies analysis. Pupils wrote a didactic test with word problems once before the teaching experiment and once after it. The analysis of each problem is following, in which the interesting phenomena that emerged in the pupils' solutions are explored.

The conclusion summarises the main points of the research conducted and looks critically at some of its parts. Finally, some implications of the work are given.

KEYWORDS

word problems, teaching in main lesson blocks, pupil's problems, mistakes, teaching approaches