ABSTRACT

The aim of this bachelor thesis is to create a collection of word problems from non-mathematical subjects in the framework of elementary school curriculum with a cross-over to secondary school, that require the use of mathematical knowledge. The theoretical part deals with a description of a word problem, its history, its division according to various criteria and a theory of word problems solution, in which the concepts necessary for a solution are classified. Furthermore, strategies and individual phases of word problems solution are described here and the concept of word problems complexity is mentioned. This thesis also describes selected non-mathematical subjects, basic knowledge concerning created word problems for the practical part included. These subjects are Physics, Chemistry, Biology and Geography. The practical part provides five word problems of my provenience for each subject, that are described according to a division to mathematical and non-mathematical, simple and complex and an assigned question. Furthermore, the practical part deals with an analysis, strategy and description of the phases of individual word problems solutions.

KEYWORDS

Word problem, word problems in non-mathematical subjects, a collection of word problems, analysis of word problems solutions