

Primary school, specifically on word problems with anti-signal.

In the word problems there is often a word which points out an operation which has to be used for the solution the problem. For example words like add, upwards, ascend, get in, expand, ..., that refer to addition. Or words like reduce, thereunder, descend, get off, decrease, ..., that refer to subtraction. Those words are called signals. But if a word refers to opposite operation than the word is pointing out, we are calling the word as an anti-signal.

This thesis inscribes research of the mathematical problems with antisignal among the pupils of Primary school. The greatest part of the work comes out from experiments, which are filed at videos, partly listed in protocols and analysed. The short part, questionnaires, tries to catch opinions of experienced teachers on méthodologie view of the problems with anti-signal. Finally the attention is paid to the presence of those problems in the sets of textbooks, which are usually used at Primary schools.

Keywords: word problems, anti-signal, operator, address, pupil's thinking processes during solving