

ABSTRACT:

Aim of the study is to focus on pupils' perceive of challenging probability problems within the second stage of primary school (age 12–15), especially aimed at pupils' mental blocks in intuitive and false beliefs or conjectures on the probability of events. The theoretical part of the thesis defines basic terms correlated with propedeutics of probability. The practical part of the work pursues intuitive solving of the challenging probability problems, especially of the Monty Hall problem. In the thesis research will be applied: the questionnaire method, tasks including probability problems, (group) work observation and examination of reasoning behind the probability problems followed by interviews with pupils focused on probability misconception phenomena. Findings of this study will be based on collected data analytics and a résumé of pupils' preconceptions about the field of probability and their ability to accept reeducation to their own-made misconceptions.

KEYWORDS:

Preconceptions, Misconceptions, Probability, Intuitive Ideas, Primary school