Thesis is of an experimental kind with the possible application to ordináty education. It deals with the implementation of graph theory into education. Using graphs theory it presents briefly different a set of problems and particularly elaborate so called equation-arrow graph aimed to early graders. The core of the thesis is experiment done with second graders. Experiment is described and analyzed. The main concern is given to solving strategies of pupils. The obtained results might be applied to education not only in grade 2.