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Podojstršek, Nataša

Mathematical activity in the elective subject mathematical workshop. (Matematični aktivnosti pri izbirnem predmetu matematična delavnica.)

Mat. Šoli 20, No. 3-4, 39-45 (2014).

Summary: Featured are two mathematical activities that can be performed in the elective subject Mathematical workshop. They belong in the field of combinatorics. Indicated are possibilities of extending the activities and examples of implementation for which the teacher can decide according to the age and ability of children in the group in which the activities are carried out. The activities can be introduced as early as the fifth grade, but they are the most suitable for seventh- and eighth-graders. Both activities enable experiential learning, develop divergent thinking, enable the use of the strategies of trial and error and problem solving, and encourage children to collect and organize data, leading them to an inductive conclusion.

Summary: Predstavljeni sta dve matematični aktivnosti, ki jih lahko izvedemo pri izbirnem predmetu Matematična delavnica. Spadata v področje kombinatorike. Nakazane so možnosti razširitve aktivnosti in primeri izvedbe, za katere se lahko učitelj odloči glede na starost in sposobnost otrok v skupini, v kateri se aktivnosti izvajata. Tako ju lahko igrajo že v petem razredu, še najbolj pa je primerna za sedmošolce in osmošolce. Obe aktivnosti omogočata izkustveno učenje in razvijata divergentno razmišljanje, strategijo poskus-napaka, strategijo reševanja problemov, sposobnost zbiranja in urejanja podatkov, ki peljejo do induktivnega sklepa.

Classification: D33 D53 K23 A23

Keywords: mathematical workshop; Hanoi towers; changing the circles