

ZMATH 2009c.00618

Choi, Keunbae; Kang, Mun-Bo

An analytic study on the elementary school mathematics textbooks via discrete mathematics.

J. Korea Soc. Math. Educ. Ser. C, Educ. Prim. Sch. 9, No. 1, 11-29 (2005).

Summary: Discrete mathematics is as important as it was reformed as an optional subject in the middle school and high school in the 7th national curriculum. There are a lot of studies about discrete mathematics in the middle course but studies about it in elementary course has been less performed. Therefore, the purpose of this paper is to analyze the concept of discrete mathematics, which is hidden in the mathematics textbook of elementary school and to develop the learning materials of discrete mathematics. Through this, it would make the students to have the sharp insight in their daily life and mathematical experience by learning the mathematical inquiry and adaptation.

Classification: U23 K23 K33 N73

Keywords: textbook analyses; schoolbooks; discrete mathematics; enumeration problems; combinatorics; graph theory; lower secondary