## Investigation of Preschool Children's Mathematics Concept Acquisition in Terms of Different Variables

Authors : Hilal Karakuş, Berrin Akman

Abstract : Preschool years are considered as critical years because of shaping the future lives of individuals. All of the knowledge, skills, and concepts are acquired during this period. Also, basis of academic skills is based on this period. As all of the developmental areas are the fastest in that period, the basis of mathematics education should be given in this period, too. Mathematics is seen as a difficult and abstract course by the most people. Therefore, the enjoyable side of mathematics should be presented in a concrete way in this period to avoid any bias of children for mathematics. This study is conducted to examine mathematics concept acquisition of children in terms of different variables. Screening model is used in this study which is carried out in a quantity way. The study group of this research consists of total 300 children, selected from each class randomly in groups of five, who are from public and private preschools in Çankaya, which is district of Ankara, in 2014-2015 academic year and attending children in the nursery classes and preschool institutions are connected to the Ministry of National Education. The study group of the research was determined by stage sampling method. The schools, which formed study group, are chosen by easy sampling method and the children are chosen by simple random method. Research data were collected with Bracken Basic Concept Scale-Revised Form and Child's Personal Information Form generated by the researcher in order to get information about children and their families. Bracken Basic Concept Scale-Revised Form consists of 11 sub-dimensions (color, letter, number, size, shape, comparison, direction-location, and quantity, individual and social awareness, building- material) and 307 items. Subtests related to the mathematics were used in this research. In the "Child Individual Information Form" there are items containing demographic information as followings: age of children, gender of children, attending preschools educational intuitions for children, school attendance, mother's and father's education levels. At the result of the study, while it was found that children's mathematics skills differ from age, state of attending any preschool educational intuitions , time of attending any preschool educational intuitions, level of education of their mothers and their fathers; it was found that it does not differ by the gender and type of school they attend.

**Keywords :** preschool education, preschool period children, mathematics education, mathematics concept acquisitions **Conference Title :** ICEP 2016 : International Conference on Education and Psychology

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**Conference Location :** Prague, Czechia **Conference Dates :** March 30-31, 2016