

عنوان مقاله:

The Effect of Basic Skills Program on Quantitative Reasoning, Math Performance, and Working Memory of Preschool Children

محل انتشار:

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خلاصه مقاله:

**Introduction:** Successful performance in mathematics depends on skills that are more basic. The purpose was to determine the effect of basic skills program on quantitative reasoning, math performance, and working memory in preschool children. **Research Method:** In a quasi-experimental study, ۳۸ girls and ۴۲ boys were in convenience selected from five-to six-year-old children of Borujen City in the school year ۲۰۲۰-۲۰۲۱. Then, ۳۰ children (۱۷ girls and ۱۳ boys) identified as children at risk of math disorder with a score on one standard deviation lower than the average in the Stanford Binet Intelligence Test and the Basic Skills Assessment Test and m assigned to the experimental and control group. The experimental group participated in ۲۴ training session. After the last session and five weeks later, the Stanford Binet Intelligence Test and the Basic Skills Assessment Test performed again. **Results:** Relating to Eta coefficients, ۸۸%, ۲۹%, and ۸۳% respectively of the variation in quantitative reasoning, math performance, and working memory of experimental group can explain by participating to the intervention sessions. The results of Bonfroni test showed that there is a significant difference between groups in pretest, posttest and follow-up phases. **Discussion:** Considering the improvement of quantitative reasoning, math performance, and working memory of preschool children, we can conclude that including similar programs in preschool not only leads to improvement of math performance but also prevents academic failures.

کلمات کلیدی:

Basic Skills Program, Quantitative Reasoning, Math Performance, Working Memory, Preschool

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