

## عنوان مقاله:

Investigation of the Effect of Collaborative Learning on the Self-confidence in Solving Mathematical Problems

## محل انتشار:

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## خلاصه مقاله:

This research aims to investigate the effect of collaborative learning on the self-confidence insolving mathematical problems. The statistical population consists of all female students of the district one of Bandar Abbas in year 2014-2015. The sample includes 52 students (26 students in control group and 26 ones in test group). The Questionnaire of Self-confidence in Solving Mathematical Problems was applied as the data collection instrument. Quasi-experimental method was applied. Therefore, control and test groups were gathered before intervention of self-confidence-related data. Then, the control group was exposed to traditional method and the test group experienced the intervention of collaborative learning. After the intervention, when the classes were finished, post-intervention data were collected. The data collected in pre-test and post-test stages was statistically analyzed through ANCOVA. Finally, results indicated that collaborative learning has a significant effect on the self-confidence ( $p=0.001$ ), ability ( $p=0.001$ ), interest ( $p=0.001$ ), and persistence ( $p=0.001$ ) in problem solving, while it has no significant effect on inability to solve problems ( $p=0.054$ ). Therefore, collaborative learning is a suitable method to improve self-confidence in solving mathematical problems among the students.

## کلمات کلیدی:

Learning, Collaborative Learning, Self-Confidence, Problem Solving, Mathematics

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