

## RELATIONSHIP AMONG THINKING STYLES OF MATHEMATICS TEACHERS AND THEIR USING OF PROCESS-BASED TEACHING METHODS

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### ABSTRACT

The aim of present study is investigation on relationship among mathematics teachers' thinking styles and amount of their using of process-based teaching methods. This research is to determine that which one of thinking styles is the strongest predictor for using of methods of Process-based teaching by math teachers. The method of this research is descriptive and correlation one. The sample group is comprised of 103 mathematics teachers that are selected randomly, 55 female and 48 male. Instruments of research were questionnaires of Sternberg Thinking Styles and Process-based Teaching Methods (PTM). The Pearson correlation and analysis of regression are used. The results show that there is a positive relationship between thinking styles of Judicial, Liberal, External, Executive and Global with using of the PTM by math teachers. The Step wise regression analysis shows that for male teachers Liberal and Local thinking styles are the stronger predictors for using of PTM. But for female the only strong predictor was Liberal thinking style.

**Keywords:** Process-based, teaching methods and thinking styles.