

Factors Affecting Algebraic Problem-solving Skills of Secondary School Students

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ABSTRACT The study is done to investigate the proficiency level of students' basic skills (BS) and attitude towards algebra (ATA) and their relation with algebraic problem-solving skills (PSS). Basic Skills Test (BST) and Problem Solving Test (PST) are done to know proficiency level of BS and PSS, and the Algebraic Attitude Scale (AAS) is designed to know the ATA. The reliability analysis of the questionnaire is 0.842 measured by Cronbach alpha. The proficiency level of students' BS and level of attitude is determined by using frequency, percentage distribution, mean and weighted mean. To determine the relationship between PSS and the factors (ATA and BS), Chi-square test is used. The result shows that students' PSS are significantly related to their level of ATA and BS.