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Relationship between Mathematics Diagnostic Test and Mathematics Final Assessment Among Pre- University Students Based on Gender

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Abstract

Diagnostic testing is considered as an important device that can be used by educators to identify students' strong and weak points in Mathematics subjects as it is often used as a preliminary evaluation of basic Mathematics skills of students. Educators must be able to detect the students' mathematical capacity earlier before delivering new content to them. This article purposes are to identify the achievement of pre-university students in Mathematics diagnostic test and Mathematics final assessment based on their gender, the differences between the gender of the students with their achievement in Mathematics diagnostic test, and the correlation between the students' Mathematics diagnostic test and their achievement in pre-university Mathematics final assessment. The findings demonstrated that students of both genders, who accomplished good results in their Mathematics diagnostic test, did similarly good in their final assessment. Also, students who carried out badly in their Mathematics diagnostic test did poorly in their final assessment. From this diagnostic result, it facilitates the educator to provide the students with the best teaching method and material required.

Keywords: Diagnostic Test, Final Assessment, Gender, Mathematics, Pre-University

Introduction

Mathematics mastery plays a vital role alongside the present focus of Science, Technology, Engineering and Mathematics (STEM) education as competence in mathematics will significantly supplement the processes of learning and mastery of various fields of Science that include Biotechnology, Engineering, and Physics. It has also been supported by Otung (2001) who claimed that Mathematics is a crucial instrument in engineering as models that employ mathematical parameters and applicable laws for engineering structure and system analysis and design. Moreover, the way toward creating equations in Science involves Mathematics too in deciding the estimation of