



UNIVERSITI TEKNOLOGI MARA

**THE EFFECTIVENESS OF “DIVISION BOX” IN
LEARNING THE OPERATION DIVISION AMONG
PUPILS OF YEAR 5, SK SEMERAH PADI, KUCHING,
SARAWAK**

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ABSTRACT

This study was conducted to investigate the perception of the pupils in using “Long Division” in learning division operation. It involved Year 5 pupils of Sekolah Kebangsaan Semerah Padi, Kuching , Sarawak. This study was conducted to determine “Division Box” as a successful effective method commonly used by pupils in solving mathematics division operation. The study employed both quantitative and qualitative survey involving distribution of questionnaires, Pre-test and Post-test. The data collected were analysed using EXCEL Microsoft Office. Results were analysed in terms of pupils’ perception in the use of “Long Division” method and the effectiveness use of “Division Box” method in teaching division operation. It aims to determine whether the use of “Division Box” method helps pupils in solving division questions. This study demonstrates that the teaching of division operation using “Division Box” method is better than learning by using the conventional forms.

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Dedicated to

My Supervisor :

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Thank you for your patience and guidance towards me that even the largest task can be accomplished if it is done one step at a time.

My family :

My husband, Mazlan bin Hasbi

&

My sons and daughters

Hoping that you will be successful in whatever field you are involved in and may Allah bless you all.

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CHAPTER 1

INTRODUCTION

1.0 Introduction

Education is a process and an activity which objective is to produce changes needed in someone. According to Wan Zahid (2000), the country's education system emphasizes on individual's development potential as a whole and integrated. Teachers' duties are getting more challenging by time. Teachers are responsible in helping each pupil to improve his or her performance in study. A good, interesting and variety of approaches of lesson planning are the main factors in creating a more conducive and motivating learning environment to the pupils.

Mathematics is an important subject in Malaysian schools. Mathematics is closely related to four basic operations: addition, subtraction, multiplication and division. Long division is one of the methods used in teaching division operation. The long division method is one of the dividing methods with one or two digit numbers.

An earlier long division method was used as early as 825 by Al-Khwarizmi. The Galley method is believed to be of Arab origin and is most effective when used on a sand abacus. However, Lam Lay Yong's research (1966) pointed out that the Galley method of division originated in the first century AD in ancient China.

The Galley method writes fewer figures than long division, and results in interesting shapes and pictures as it expands both above and below the initial lines. It was the