

Mathematics for Elementary School Teachers

A PROCESS APPROACH



MARK A. FREITAG

Mathematics For Elementary School Teachers A Process Approach

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MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS A PROCESS APPROACH was developed using the five Content Standards from the NCTM Principles and Standards for School Mathematics and the Common Core State Standards for Mathematics Traditionally books for pre service elementary teachers have focused on problem solving However problem solving is not the only process through which mathematics is learned It is also learned through mathematical reasoning communication representation and connections Recent trends in mathematics education now advocate implementing all five processes as a vital part of learning and doing mathematics Consequently you need to have concrete experiences with these processes that you will be required to teach The goal of this book is to treat each of the processes equitably by using an approach in which the five processes serve as the central pedagogical theme Most of the examples exercises and activities are designed to either model the processes or to directly engage you in working with them As a result you will not only come to understand the different processes but also appreciate them as an integral to learning and doing mathematics If this broader view can be instilled you are more likely to give your students a more well rounded and holistic view of mathematics once you enter the classroom The content of the book is directly related to the mathematics that is taught in grades K 8 The purpose is not to reteach elementary mathematics Rather the intent is to look at the content from a theoretical or generalized point of view so that you can better understand the concepts and processes behind the mathematics you will teach In short the book focuses on the why behind the mathematics in addition to the how Available with InfoTrac Student Collections <http://gocengage.com/infotrac> Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Mathematics for Elementary Teachers* Mark Freitag, 2013-01-01 Freitag s
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Explorations Activities for Freitag's Mathematics for Elementary School Teachers: a Process Approach Mark A. Freitag,2013-01-08 Exploration Activities contains a variety of explorations for each section which are referenced in the text by an icon in the margin Some explorations deal directly with the content of the chapter often making use of relevant manipulatives or other hands on activities Other explorations extend the content of the section either mathematically or by building a connection to the K 8 classrooms Most of the explorations can be done individually or with groups and should take about 30 45 minutes to complete Resources in Education ,1987-10 Research in Education ,1970 **Mathematics for Elementary Teachers** Thomas Sonnabend,1993 *Subject Guide to Books in Print* ,1996 **Resources for Performance-based Education** W. Robert Houston,1973 **The Ohio Teacher** ,1914 **New Trends in Integrated Science Teaching** P. E. Richmond,1969 *Comprehensive Dissertation Index, 1861-1972: Education* Xerox University Microfilms,1973 **El-Hi Textbooks & Serials in Print** Bowker Editorial Staff,2004-02 **Current Index to Journals in Education, Semi-Annual Cumulation, July-December, 1976** ,1976-10 **Developmental Reading, K-8** Daniel R. Hittleman,1988 *Resources in Education* ,1993 **ERIC Educational Documents Index, 1966-69: Major descriptors** ,1970 **SEF Report E.** Metropolitan Toronto School Board. Study of Educational Facilities,1968

This book delves into Mathematics For Elementary School Teachers A Process Approach. Mathematics For Elementary School Teachers A Process Approach is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mathematics For Elementary School Teachers A Process Approach, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mathematics For Elementary School Teachers A Process Approach
 - Chapter 2: Essential Elements of Mathematics For Elementary School Teachers A Process Approach
 - Chapter 3: Mathematics For Elementary School Teachers A Process Approach in Everyday Life
 - Chapter 4: Mathematics For Elementary School Teachers A Process Approach in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Mathematics For Elementary School Teachers A Process Approach. The first chapter will explore what Mathematics For Elementary School Teachers A Process Approach is, why Mathematics For Elementary School Teachers A Process Approach is vital, and how to effectively learn about Mathematics For Elementary School Teachers A Process Approach.
3. In chapter 2, this book will delve into the foundational concepts of Mathematics For Elementary School Teachers A Process Approach. The second chapter will elucidate the essential principles that need to be understood to grasp Mathematics For Elementary School Teachers A Process Approach in its entirety.
4. In chapter 3, this book will examine the practical applications of Mathematics For Elementary School Teachers A Process Approach in daily life. The third chapter will showcase real-world examples of how Mathematics For Elementary School Teachers A Process Approach can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Mathematics For Elementary School Teachers A Process Approach in specific contexts. This chapter will explore how Mathematics For Elementary School Teachers A Process Approach is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Mathematics For Elementary School Teachers A Process Approach. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mathematics For Elementary School Teachers A Process Approach.

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