Fractions I
The Four Concepts
Lowest Terms and Equivalents Levels I–VII

GUIDED APPLICATION

Worksheet Masters & Answer Keys

DAVID BERG, EDUCATIONAL THERAPIST
Creator of the Making Math Real Multisensory Structured Methods
Founder & Director of the Making Math Real Institute

Version 2.0
Guidelines and Copyright Policy

The contents of this worksheet masters binder are highly specialized and require specific Making Math Real instruction in using the materials correctly. Consequently, this book is only available to course participants instructed in its use.

The worksheet masters in this book are ideal for supplementing any and all textbooks, and provide the Making Math Real course participant with specific and prescriptive practice designed to maximize the development of the associative and cognitive tools of central processing, retention, and concept-procedure integration.

All problem sets have been carefully designed to include all content combinations, configurations, increments and levels to ensure maximum connection and comprehension.

PLEASE NOTE: The use of these materials requires guided instruction from the educator to guarantee student success, and is never intended to be used as unsupported drill.

Adhere to Copyright Law

Permission to Copy is granted only to the purchaser of this book -- Making Math Real authorizes the use and duplication of the materials in this worksheet masters binder for educational use in the classroom or private practice, only. Additional requests for permission to copy these materials must be made in writing to: Making Math Real, 900 Regal Road, Berkeley, CA 94708 or info@makingmathreal.org.

(Copyright ©1996 David Berg / Copyright ©2010 Making Math Real)
All rights reserved.

WARNING: Further distribution or copying of these materials is unlawful and expressly prohibited. In addition, we do not endorse any third party presentations of Making Math Real because we cannot control for its quality. The Making Math Real Institute is a registered trademark, and as such, is the sole provider of its content.
Acknowledgements

I would like to acknowledge the invaluable and tireless efforts of Michael Curry, ET. His commitment, patience, tenacity, and understanding of Making Math Real are responsible for the formatting of my ideas and designs into a product ready for publication. In addition, I would like to thank Karen Zuniga, ET, for her significant time and energy in editing and reviewing this book.

David Berg, Educational Therapist
Creator of the Making Math Real Multisensory Structured Methods
Founder & Director of the Making Math Real Institute
### LEVELED WORKSHEETS

#### SECTION I: THE FOUR CONCEPTS OF FRACTIONS

**Parts of a Whole:**
- Identification ............................................................... 1
- Making Fractions ............................................................ 5
- Application ........................................................................... 9
- Word Form .......................................................................... 12

**Parts of a Group:**
- Identification ................................................................. 18
- Making Fractions ............................................................ 22

**Parts of a Line:**
- Identification ................................................................. 28
- Making Fractions ............................................................ 32
- The Fraction Number Line ................................................ 35

**Parts of a Cup:**
- Parts of a Vertical Line ....................................................... 41
- Identification ................................................................. 43
- Making Fractions ............................................................ 45

#### SECTION II: LOWEST TERMS AND EQUIVALENT FRACTIONS

- Templates for the Concrete Phase: Unit Fractions and Simple Fractions .... 47
- Understanding One Half ....................................................... 54
- Introduction to Generating Equivalent Fractions ......................... 55
- Understanding Equivalent Fraction Sequences ............................. 58

**Level I:**
- Finding the Missing Factors ............................................... 68

**Level II:**
- Finding the Equivalent Fraction .......................................... 71
- Combination Practice and Comprehension Questions ................... 74

# Table of Contents

**Level III:**
- Converting to Equivalent Fractions ........................................... 75
- Advanced Applications (Power Tool) ........................................... 78
- Combination Practice and Comprehension Questions .................... 81

**Level IV:**
- Finding Greatest Common Factor ............................................. 82
- Advanced Applications (Power Tool) .......................................... 85
- Combination Practice and Comprehension Questions .................... 88

**Level V:**
- Finding Lowest Terms ............................................................. 89
- Advanced Applications ............................................................ 94
- Combination Practice and Comprehension Questions .................... 96
- Linking Greatest Common Factor to Greatest Common Divisor ........ 97

**Level VI:**
- Simplifying to Lowest Terms .................................................... 99
- Advanced Applications (Power Tool) ......................................... 102
- Advanced Combination Practice ............................................... 105

**Level VII:**
- Equivalent Fraction Puzzles ..................................................... 110

Index of Teacher Answer Sheets ............................................ Final Section