Beyond Invert and Multiply
McNamara, Julie
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DESCRIPTION

Beyond Invert and Multiply by Julie McNamara provides support for teachers to deepen their understanding of fraction computation in grades 3 – 5, as well as in grades 2 and 6. This book is organized into four main sections:

1. Part I – What is a Fraction?
2. Part II – Addition and Subtraction with Fractions
3. Part III – Multiplication and Division with Fractions
4. Part IV – Discourse with Fractions

Each section includes classroom scenarios, explanations of the mathematics content, research references, video clips, and classroom activities that use manipulatives and reproducible activities. In addition, each part includes a “Wrapping it Up Section” that provides questions to use in a PLC or book study. Furthermore, each section contains Connections to Beyond Pizzas and Pies, making this a helpful resource for further developmental understanding of fractions and fraction computation. If you have used Beyond Pizzas and Pies, the books can be paired by similar topics for use in a PLC.

STAGE 1 LEADERSHIP

Beyond Invert and Multiply supports Stage 1 development of leaders working to improve their practice. Specialists in the role of coaching may work independently or with colleagues to use the book as a resource to deepen their own content and pedagogical knowledge of fractions as numbers and of fraction computation. This book can be read in its entirety or sections can be used with teacher teams in a PLC or book study. Since each section makes connections to Beyond Pizzas and Pies, this book can be used as a follow up to a book study or PLC which used Beyond Pizzas and Pies, or the books could be used together in a PLC, in which similar topics from each book are paired.

STAGE 2 LEADERSHIP

This Beyond Invert and Multiply also supports Stage 2 development of leaders working to engage teacher teams in the collaborative development and implementation of instructional strategies needed to support every learner. It can be used as an independent teacher resource, but it is also structured to provide a framework for professional learning communities through teacher teams in individual schools or in districts. The book highlights strategies to develop and deepen conceptual understanding, procedural fluency, and application of CCSM fraction standards in grades 3 - 5. The strategies outlined in the book not only help teachers improve their confidence regarding the CCSM fraction standards in grades 3 - 5, but also offers techniques to promote student discourse and confidence.