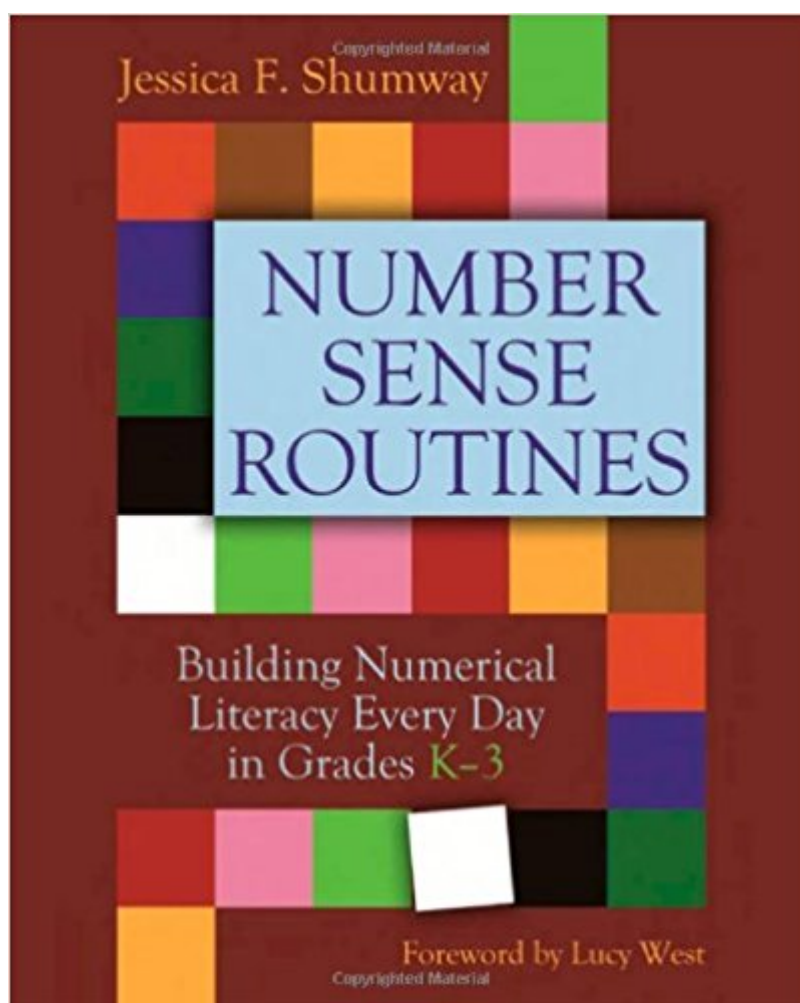




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# Number Sense Routines: Building Numerical Literacy Every Day In Grades K-3



## Synopsis

Just as athletes stretch their muscles before every game and musicians play scales to keep their technique in tune, mathematical thinkers and problem solvers can benefit from daily warm-up exercises. Jessica Shumway has developed a series of routines designed to help young students internalize and deepen their facility with numbers. The daily use of these quick five-, ten-, or fifteen-minute experiences at the beginning of math class will help build students' number sense. Students with strong number sense understand numbers, ways to represent numbers, relationships among numbers, and number systems. They make reasonable estimates, compute fluently, use reasoning strategies (e.g., relate operations, such as addition and subtraction, to each other), and use visual models based on their number sense to solve problems. Students who never develop strong number sense will struggle with nearly all mathematical strands, from measurement and geometry to data and equations. In *Number Sense Routines*, Jessica shows that number sense can be taught to all students. Dozens of classroom examples -- including conversations among students engaging in number sense routines -- illustrate how the routines work, how children's number sense develops, and how to implement responsive routines. Additionally, teachers will gain a deeper understanding of the underlying math -- the big ideas, skills, and strategies children learn as they develop numerical literacy.

## Book Information

Series: Number Sense Routines

Paperback: 192 pages

Publisher: Stenhouse Publishers; Number Sense Routine edition (March 24, 2011)

Language: English

ISBN-10: 1571107908

ISBN-13: 978-1571107909

Product Dimensions: 8 x 0.5 x 10 inches

Shipping Weight: 14.4 ounces (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 58 customer reviews

Best Sellers Rank: #28,383 in Books (See Top 100 in Books) #29 in Books > Science & Math > Mathematics > Popular & Elementary > Arithmetic #86 in Books > Education & Teaching > Schools & Teaching > Instruction Methods > Mathematics #116 in Books > Education & Teaching > Schools & Teaching > Early Childhood Education

## Customer Reviews

The insights, tools, and strategies for planning and instruction could be tailored to nearly any group of learners, in any school environment, with any curriculum. The book speaks directly to teachers, but it also has real potential to help parents integrate the development of numerical literacy into daily family routines. --Teaching Children Mathematics

Lucy West is the founder and Director of Metamorphosis Teaching Learning Communities. Formerly the Director of Mathematics Instruction in New York City's Community School District 2, Lucy also served as Deputy Superintendent of Curriculum and Instruction, Grades K-12, for nearly 200 schools in New York City's Region 9. She is a nationally known speaker on professional development practices and a master mathematics coach.

I use this book in my first grade class and I've seen so much improvement in my students. I find that so often teachers teach math without any number sense. This book gives you practical, easy to implement activities to boost number sense. LOVE this book and recommend it to many parents and colleagues.

This book is so many things I've been looking for all in one place. It is a goldmine, a bank of powerful strategies, which are critical for building number sense (the foundation of all mathematics). I especially love the visual routines. These help students "see" numbers and deepen their understanding of how numbers work (how they can be flexible by decomposing them). This understanding makes their learning so much more meaningful and practical when it is transferred to "mental math", which is used daily in the real world. As I was reading this, I eagerly implemented what I was reading and used many of the resources before I even finished the book! I teach third grade math and found many great ideas for differentiating my instruction-for my remedial groups all the way to modifications of the strategies to challenge my high performers. Reading this book inspired me to start a "vertical team" book study, open to any interested K-5 math teachers (gen ed and ESE) at my school. I can't wait to see the effects of the great conversations we've been having!

I have only begun to read this, but what I have gleaned from my readings so far has been very helpful in understanding number sense, how kids develop number sense, and planning lessons to facilitate number sense. I greatly appreciate the table outlining the routines. It is a wonderful, quick reference that helps me look back and remember: "Now which routine was helpful with this skill?" or "How does the routine work?" The question strategies are so helpful because sometimes after

plotting out my lessons into my lesson plans, I'm just a little too tired to think of really good questions! I've looked ahead and I believe there are also suggestions as to how to differentiate for various levels of understanding. Thanks for writing such a helpful teacher-friendly resource.

This book is an excellent resource! It has everything you need to help you fill the gaps that math textbooks have, and help your students truly understand numbers. However, because of the extended explanations of the images reading it on the kindle or iPhone makes it a little difficult to refer back and forth to each. Having the actual book would probably be easier.

This book is a powerful resource for any math teacher at any grade level to have on their shelf. This is not a book that you need to read in order or cover to cover. It is a resources that can be pulled to get powerful strategies that all aim to build solid mathematical number sense in students. This book lays out many visual routines that can be used to help implement routines into the classroom and deepen their understanding of how numbers work. Subitizing is gaining traction in the world of math education and all the strategies aiming to help students "see" numbers is getting at that subitizing skill. This book is an easy read and you will be able to implement strategies as you read them and make a positive impact on your students right away. This would be a great book to use as part of a PLC or book study!

As a new, incoming teacher, this book helped me understand how children learn math and good ways to teach them number sense. I wish I'd been taught this way! I love having these tools to help me in class, and my students will, too.

I enjoyed this book because it gave teachers clear definitions of what number sense looks like I primary and upper elementary classrooms. There are ideas, routines, and explanations on how to take your current math instruction and make it more enriching for students. Buy this book for the ideas and appendices-you will definitely use them!

Bought this as a parent wanting to get a better grasp of the new Common Core math, which is sometimes so poorly written it boggles my mind. This really helped explain the concepts behind Common Core and I've been able to incorporate it into the help I give my daughter so she better understands the goals of the (still poorly written!) questions in her homework. Great book.

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