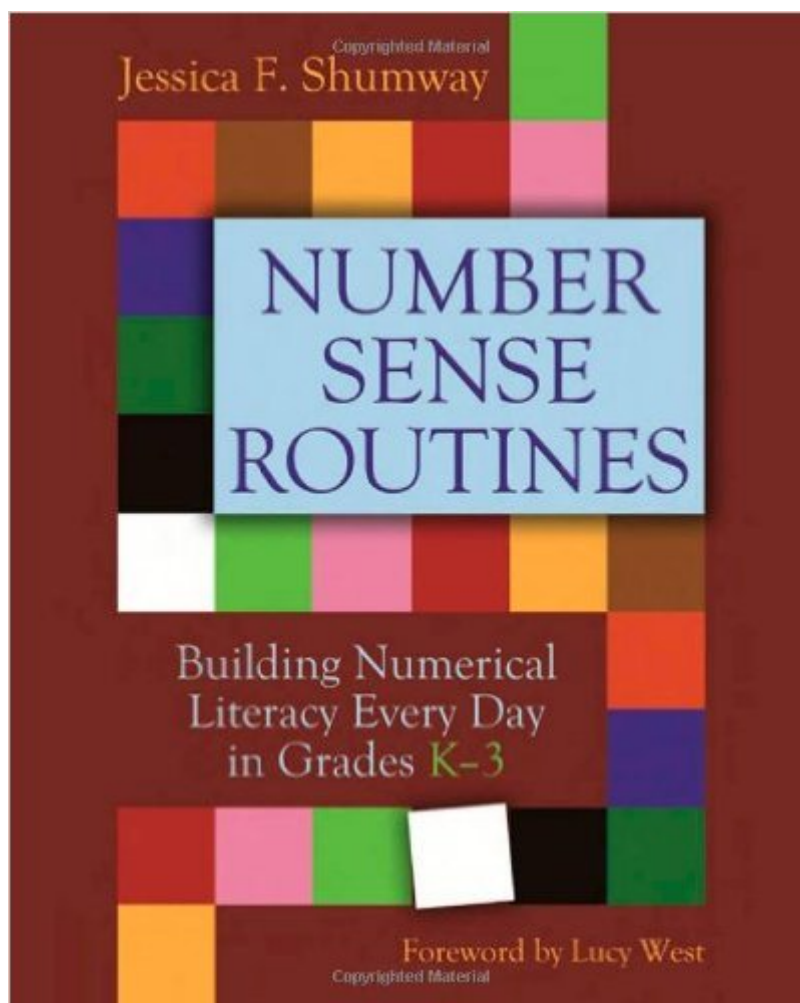


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# Number Sense Routines: Building Numerical Literacy Every Day In Grades K-3



## 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

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## Customer Reviews

I have two pre-school boys, 5 and 4. I noticed my five year old developing a lot of enthusiasm for numbers and I recognized his "number sense" was pretty good. I wanted to take a cue from his enthusiasm and help him develop that better so I got this book on number sense. Even before it arrived, I was reading the preview and was impressed with the Early Number Sense Learning Trajectory. Right away I recognized some things that could help both my boys. After I received the book, I've been reading through it and it's full of ideas that I can use for years to come. The book is helping me understand the learning process my boys are going through, and how to plan and implement routines that will help them develop an advanced sense of number. The book has useful ideas for pre-school through most of the elementary grades. The cover indicates K-3 but there's some 4th grade examples inside. More importantly, there's routines that will help people develop their number sense from wherever it's at now, no matter their age. My boys are examples of the early stages. My little one had some sense of magnitude, one-to-one correspondence in counting, and cardinality, but if you showed him four or five things he was still counting them. I started to work with him in subitizing with dot cards. In just a few days, he's gone from subitizing three up to six. We're making this a routine, for him with a single die (from a pair of six-sided dice), dot-pattern cards, and the dominoes whose two halves total to maybe 8. I'm using a ten wand and introducing ways to make a number. We also do choral counting as a family and we're starting to include him on counting around the circle. My older boy was excited about the dot patterns when I showed the kids the cards I had made.

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