



# Elementary and Middle School Mathematics: Teaching Developmentally: The Professional Development Edition for Mathematics Coaches and Other Teacher ... Student-Centered Mathematics Series)

By John A. Van de Walle, Karen S. Karp, Jennifer M. Bay-Williams

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*Elementary and Middle School Mathematics: Teaching Developmentally, Professional Development Edition* provides unparalleled depth of ideas and discussion to help mathematics coaches and other teacher leaders foster teachers' understanding of the mathematics they will teach and the most effective teaching methods for the various mathematics topics. This text reflects the philosophy of the NCTM and Common Core State Standards and the benefits of problem-based mathematics instruction. The **Coach/Teacher Leader Guide to this Book and Activities Matrix** that appear at the front of the book and **Professional Learning Opportunities sections, Coach/Teacher Leader Considerations boxes, and PDT toolkit boxes** that appear at the end of each chapter ensure this book is a valuable resource for all educators who facilitate mathematics professional development and support students making sense of mathematics.

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## **Editorial Review**

From the Back Cover

*Elementary and Middle School Mathematics*

*Teaching Developmentally*  
Professional Development Edition

**This special edition of the all-time best-selling math methods book will help mathematics coaches and other teacher leaders support Pre-K – 8 teachers in enhancing their mathematics teaching practice.**

***Elementary and Middle School Mathematics: Teaching Developmentally, Professional Development Edition*** provides unparalleled depth of ideas and discussion to help mathematics coaches and other teacher leaders foster teachers' understanding of the mathematics they will teach and the most effective teaching methods for the various mathematics topics. This text reflects the philosophy of the NCTM and Common Core State Standards and the benefits of problem-based mathematics instruction. The **Coach/Teacher Leader Guide to this Book** and **Activities Matrix** that appear at the front of the book and **Professional Learning Opportunities** sections, **Coach/Teacher Leader Considerations** boxes, and **PDToolkit** boxes that appear at the end of each chapter ensure this book is a valuable resource for all educators who facilitate mathematics professional development and support students making sense of mathematics.

**A complimentary 6-month access code for the online PDToolkit (<http://pdtoolkit.pearson.com>) inside every new book gives mathematics leaders access to:**

- Videos highlighting student mathematical thinking
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## **Meet the Authors**

**Karen S. Karp** is a professor of mathematics education at the University of Louisville in Kentucky. Prior to entering the field of teacher education she was an elementary school teacher in New York. Karen is a co-author of *Feisty Females: Inspiring Girls to Think Mathematically*, which is aligned with her research interests on teaching mathematics to diverse populations. With Jennifer, Karen co-edited *Growing Professionally: Readings from NCTM Publications for Grades K-8* and co-authored (along with Janet Caldwell) *Developing Essential Understanding of Addition and Subtraction for Teaching Mathematics in Pre-K-Grade 2*. She is a former member of the Board of Directors of the National Council of Teachers of Mathematics (NCTM) and a former president of the Association of Mathematics Teacher Educators (AMTE). She continues to work in classrooms with elementary and middle school students and with teachers at all levels who work with students with disabilities.

**Jennifer M. Bay-Williams** is a professor of mathematics education at the University of Louisville

(Kentucky). Jennifer has published many articles on teaching and learning in NCTM journals. She has also coauthored numerous books, including: *Developing Essential Understanding of Addition and Subtraction for Teaching Mathematics in Pre-K-Grade 2*, *Math and Literature: Grades 6-8*, *Math and Nonfiction: Grades 6-8*, and *Navigating through Connections in Grades 6-8*. She is the author of the *Field Experience Guide* for this book. Jennifer taught elementary, middle, and high school in Missouri and in Peru, and continues to work in classrooms at all levels with students and with teachers. Jennifer is on the Board of Directors for TODOS: Equity for All, Editor for the 2012 NCTM Yearbook, and past-president of the Association of Mathematics Teacher Educators (AMTE).

#### About the Author

##### **John A. Van de Walle**

The late John A. Van de Walle was a professor emeritus at Virginia Commonwealth University. He was a mathematics education consultant who regularly gave professional development workshops for K-8 teachers in the United States and Canada. He visited and taught in elementary school classrooms and worked with teachers to implement student-centered math lessons. He co-authored the Scott Foresman-Addison Wesley *Mathematics K-6* series and contributed to the Pearson School mathematics program, enVisionMATH. Additionally, he wrote numerous chapters and articles for the National Council of Teachers of Mathematics (NCTM) books and journals and was very active in NCTM, including serving on the Board of Directors, Chair of the Educational Materials Committee, and a frequent speaker at national and regional meetings.

##### **Karen S. Karp**

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**Jonathan Wray**, technology contributor to *Elementary and Middle School Mathematics, Teaching Developmentally* (6th-8th editions).

Jonathan Wray is the Instructional Facilitator for Secondary Mathematics Curricular Programs in the Howard County Public School System. He is the president of the Association of Maryland Mathematics Teacher Educators (AMMTE) and past president of the Maryland Council of Teachers of Mathematics (MCTM). He has been recognized for his expertise in infusing technology in mathematics teaching receiving the Outstanding Technology Leader in Education by the Maryland Society for Educational Technology (MSET). Jon is also actively engaged in NCTM, serving on the editorial panels of *Teaching Children Mathematics* and *ON-Math*. Mr. Wray has been a primary and intermediate grades classroom teacher, gifted/talented resource teacher, elementary mathematics specialist, curriculum and assessment developer, grant project manager, and educational consultant.

### **Nicole Rigelman**

Nicole Rigelman is a professor of mathematics education at the Portland State University in Oregon. Nicole has published several articles on teaching and learning in NCTM journals and was a contributor for the 2<sup>nd</sup> Edition *Developing Mathematical Ideas* case-based professional development materials: *Building a System of Tens* and *Making Meaning for Operations*. She also served as a curriculum developer for the *Bridges in Mathematics*. Nicole was a middle school math teacher and K-12 mathematics curriculum specialist and continues to work in classrooms at all levels with students and with teachers. She serves on several mathematics advisory boards and was a member of the NCTM Assessment Task Force, the AMTE Teaching Resources Task Force, and co-leads AMTE's Elementary Mathematics Specialists initiatives. Nicole is a former president of Teachers of Teachers of Mathematics (TOTOM) an affiliate of AMTE.

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