# Volume 5, 1998-1999

Go to www.nctm.org/tcm/archive.html to view a cumulative index from 1983.

# **Author Index**

- Allen, Candy, Karen Karp, Linda G. Allen, and Elizabeth Todd Brown, Feisty Females: Using Children's Literature with Strong Female Characters. Oct., 88–94.
- Allen, Linda G., Karen Karp, Candy Allen, and Elizabeth Todd Brown, Feisty Females: Using Children's Literature with Strong Female Characters. Oct., 88–94.
- Andrews, Angela Giglio, Solving Geometric Problems by Using Unit Blocks. Feb., 318–23.
- Atkins, Sandra L., Listening to Students: The Power of Mathematical Conversations. Jan., 289–95.
- Battista, Michael T., Geometry Results from the Third International Mathematics and Science Study. Feb., 367–73.
- Berkman, Robert M., Exploring Interplanetary Algebra to Understand Earthly Mathematics. Oct., 78–83.
- Bird, Elliott, What's in the Box? A Problem-Solving Lesson and a Discussion about Teaching. May, 504–7.
- Bouckris, Robin, Mary Jean LeTendre, and Judy Wurtzel, Title I and Mathematics Instruction: Making the Marriage Work. Jan., 270–73.
- Brahier, Daniel J., Monica Kelly, and Jennifer Swihart, This Little Piggy. Jan., 274–80.
- Brahier, Daniel J., and Melfried Olson, The World's Largest Math Event: Promoting Mathematical Thinking. Mar., 430–32.
- Brinker, Laura, Using Recipes and Ratio Tables to Build on Students' Understanding of Fractions. Dec., 218–24.
- Brown, Elizabeth Todd, Karen Karp, Candy Allen, and Linda G. Allen, Feisty Females: Using Children's Literature with Strong Female Characters. Oct., 88–94.
- Burrill, Gail, Changes in Your Classroom: From the Past to the Present to the Future. Nov. 202–9.
- Cai, Jinfa, Developing Algebraic Reasoning in the Elementary Grades. Dec., 225–29.
- Cantlon, Danise, Kids + Conjectures = Mathematics Power. Oct., 108–12.
- Carroll, William M., and Andrew C. Isaacs, Strategies for Basic-Facts Instruction. May, 508–15.
- Chia, David T., Weather Mathematics: Integrating Science and Mathematics. Sept., 19–22.
- Clements, Douglas H., Subitizing: What Is It? Why Teach It? Mar., 400–405.
- Clements, Douglas H., and Julie Sarama, Using Computers for Algebraic Thinking. Nov., 186–90.
- Cockcroft, Sir Wilfred H., and John Marshall, Educating Hannah: It's a What? Feb., 326–29.
- Curcio, Frances R., and Sydney L. Schwartz, There Are No Algorithms for Teaching Algorithms. Sept., 26–30.
- De La Cruz, Yolanda, Reversing the Trend: Latino Families in Real Partnerships with Schools. Jan., 296–300.
- De La Cruz, Yolanda, Ana Maria Lo Cicero, and Karen C. Fuson, Teaching and Learning Creatively: Using Children's Narratives. May, 544–47.

- Drum, Randell L., and Wesley G. Petty Jr., Teaching the Values of Coins. Jan., 264–68.
- Economopoulos, Karen, What Comes Next? The Mathematics of Pattern in Kindergarten. Dec., 230-33.
- Enright, Brian E., Picky Patterns. Nov., 174-78.
- Eston, Rebeka, and Linda Schulman, A Problem Worth Revisiting. Oct., 72–77.
- Filliman, Paula, Patterns All Around. Jan., 282-83.
- Fuson, Karen C., Yolanda De La Cruz, and Ana Maria Lo Cicero, Teaching and Learning Creatively: Using Children's Narratives. May, 544–47.
- Grant, Jean Marie, and Robert J. Wolffe, Changes All Around Us. Dec., 234–35.
- Guengerich, Susan, and Russ Trowbridge, Winter Celebrations and Mathematics. Nov., 180–81.
- Ham, Jan, Playground Mathematics: Playing with Space. Apr., 474–75.
- Hannibal, Mary Anne, Young Children's Developing Understanding of Geometric Shapes. Feb., 353–57.
- Harris, Jacqueline, Interweaving Language and Mathematics Literacy through a Story. May, 520–24.
- Hildebrandt, Charlene, Clinton J. Ludeman, and Joan Mullin, Integrating Mathematics with Problem Solving Using the Mathematician's Chair. Mar., 434–41.
- Hildebrandt, Carolyn, Developing Mathematical Understanding through Invented Games. Nov., 191–95.
- Holly, Karen, So You Have a Problem? Mar., 410-11.
- Irby, Beverly J., Rafael Lara-Alecio, and Leonel Morales-Aldana, A Mathematics Lesson from the Mayan Civilization. Nov., 154–58.
- Isaacs, Andrew C., and William M. Carroll, Strategies for Basic-Facts Instruction. May, 508–15.
- Jacobs, Anne, and Sharon Rak, Geometry. Feb., 346-47.
- Kajander, Ann E., Creating Opportunities for Children to Think Mathematically. Apr., 480–86.
- Karp, Karen, Candy Allen, Linda G. Allen, and Elizabeth Todd Brown, Feisty Females: Using Children's Literature with Strong Female Characters. Oct., 88–94.
- Kelly, Monica, Daniel J. Brahier, and Jennifer Swihart, This Little Piggy, Jan., 274–80.
- Kline, Kate, Kindergarten Is More Than Counting. Oct.,
- ——, Helping at Home. Apr., 456–60.
- Lappan, Glenda, Refining Our Efforts. Oct., 68.
- Lara-Alecio, Rafael, Beverly J. Irby, and Leonel Morales-Aldana, A Mathematics Lesson from the Mayan Civilization. Nov., 154–58.
- LaSaracina, Barbara A., and Sharon K. White, The Restless Rectangle and the Transforming Trapezoid. Feb., 336–37, 366.
- Lazerick, Beth, Aunty Math's Challenges for Kids. Mar., 420.
  —, Cut-the-Knot, Oct., 113.

- —, Lesson Stop and Parents Guide to the Internet. May, 548.
- ---, Online Resources from McREL. Apr., 469.
- ----, PBS Mathline. Dec., 250.
- ----, Visit These Sites. Sept., 52-53.
- LeTendre, Mary Jean, Judy Wurtzel, and Robin Bouckris, Title I and Mathematics Instruction: Making the Marriage Work. Jan., 270–73.
- Lo Cicero, Ana Maria, Yolanda De La Cruz, and Karen C. Fuson, Teaching and Learning Creatively: Using Children's Narratives. May, 544–47.
- Ludeman, Clinton J., Charlene Hildebrandt, and Joan Mullin, Integrating Mathematics with Problem Solving Using the Mathematician's Chair. Mar., 434–41.
- Mack, Nancy K., Building a Foundation for Understanding the Multiplication of Fractions. Sept., 34–38.
- Marshall, John, and Sir Wilfred H. Cockcroft, Educating Hannah: It's a What? Feb., 326–29.
- Martin, Hope, Days of the Month: The Calendar of Mathematics. May, 530–31.
- Mewborn, Denise S., The Quarter Quandary: An Illustration of NCTM's Professional Teaching Standards. Nov., 160–63.
- Moore, Deborah A., Some Like It Hot: Promoting Measurement and Graphical Thinking by Using Temperature. May, 538–43.
- Morales-Aldana, Leonel, Beverly J. Irby, and Rafael Lara-Alecio, A Mathematics Lesson from the Mayan Civilization. Nov., 154–58.
- Mullin, Joan, Charlene Hildebrandt, and Clinton J. Ludeman, Integrating Mathematics with Problem Solving Using the Mathematician's Chair, Mar., 434–41.
- Murphy, Stuart J., Using Mathematics to Tell Stories. Oct., 96–97.
- Nagel, Nancy G., and Cynthia Carol Swingen, Students' Explanations of Place Value in Addition and Subtraction. Nov., 164–70.
- Oberdorf, Christine D., and Jennifer Taylor-Cox, Shape Up! Feb., 340-45.
- Oleson, Vicki L., Incredible Comparisons: Experiences with Data Collection. Sept., 12–16.
- Olson, Judith, Guess the Weight! Solution to the "How Much Film?" Problem. Oct., 104-7.
- —, What Shapes Can You Make? Responses to the "How Many Sandwiches?" Problem. Feb., 330–34, 359.
- Olson, Judith, and Melfried Olson, Mathematics in Our Environment. Sept., 32–33.
- Olson, Melfried, Counting Cubes; Responses to the "Shuffling a Line" Problem. Mar., 406-8.
- —, Darts, Anyone? Responses to the "How Many Times Can You Take One-Half?" Problem. May, 532–36.
- ——, How Many Times Can You Take One-Half?; Responses to the "Double That Dough" Problem, Sept., 46–50.
- —, Wrist Bands; Responses to the "Decoration Delight" Problem. Dec., 242–45.
- Olson, Melfried, and Judith Olson, Mathematics in Our Environment. Sept., 32–33.

- Olson, Melfried, and Daniel J. Brahier, The World's Largest Math Event: Promoting Mathematical Thinking. Mar., 430–32.
- Pearson, Jennifer, and John Wallace, What Makes a Corner a Corner? Sept., 6-9.
- Petty, Wesley G., Jr., and Randell L. Drum, Teaching the Values of Coins. Jan., 264–68.
- Rak, Sharon, and Anne Jacobs, Geometry. Feb., 346–47.
- Reynolds, Anne M., and Grayson H. Wheatley, "Image Maker": Developing Spatial Sense. Feb., 374–78.
- Reys, Barbara J., and Robert E. Reys, Computation in the Elementary Curriculum: Shifting the Emphasis. Dec., 236–41.
- Reys, Robert E., and Barbara J. Reys, Computation in the Elementary Curriculum: Shifting the Emphasis. Dec., 236–41.
- Ritchhart, Ron, Generative Topics: Building a Curriculum around Big Ideas. Apr., 462–68.
- Robertson, Stuart P., Getting Students Actively Involved in Geometry. May, 526–29.
- Ruggles, JoLean, and Barbara Sweeney Slenger, The "Measure Me" Doll. Sept., 40–44.
- Sakshaug, Lynae, The Orange Game; Responses to the "Counting Squares" Problem. Mar., 488–90.
- —, Take Two: Fair or Unfair? Responses to the "You Gotta Have Heart—and Blood!" Problem. Jan., 286–88.
- —, What Are the Clues? Patterns in More Than One Direction; Responses to the "When Will We Reach 1/2?" Problem. Nov., 182–85.
- Sarama, Julie, and Douglas H. Clements, Using Computers for Algebraic Thinking. Nov., 186-00
- Schifter, Deborah, Learning Geometry: Some Insights Drawn from Teacher Writing. Feb., 360–66.
- Schulman, Linda, and Rebeka Eston, A Problem Worth Revisiting. Oct., 72–77.
- Schwartz, Sydney L., and Frances R. Curcio, There Are No Algorithms for Teaching Algorithms. Sept., 26–30.
- Sellke, Donald H., Geometric Flips via the Arts. Feb., 379–83.
- Silbey, Robyn, What Is in the Daily News? Problem-Solving Opportunities! Mar., 390–94.
- Simonsen, Linda M., and Anne R. Teppo, Using Invented Algorithms with Preservice Teachers. May, 516–19.
- Slenger, Barbara Sweeney, and JoLean Ruggles, The "Measure Me" Doll. Sept., 40–44.
- Swihart, Jennifer, Daniel J. Brahier, and Monica Kelly, This Little Piggy. Jan., 274–80.
- Swingen, Cynthia Carol, and Nancy G. Nagel, Students' Explanations of Place Value in Addition and Subtraction, Nov., 164–70.
- Taylor-Cox, Jennifer, and Christine D. Oberdorf, Shape Up! Feb., 340–45.
- Tepper, Anita Benna, A Journey through Geometry: Designing a City Park. Feb., 348–52.
- Teppo, Anne R., and Linda M. Simonsen, Using

- Invented Algorithms with Preservice Teachers. May, 516–19.
- Tevebaugh, Tara N., Mathematics Is Not a Universal Language. Dec., 214–16.
- Trowbridge, Russ, and Susan Guengerich, Winter Celebrations and Mathematics. Nov., 180–81.
- Tuch, Abby, Check Out These Checkbooks: Real-Life Banking for the Classroom. Mar., 422–29.
- van Hiele, Pierre M., Developing Geometric Thinking through Activities That Begin with Play. Feb., 310–16.
- Wallace, John, and Jennifer Pearson, What Makes a Corner a Corner? Sept., 6–9.
- Welchman, Rosamond, Are You Puzzled? Mar., 412–15.
- Wheatley, Grayson H., and Anne M. Reynolds, "Image Maker": Developing Spatial Sense. Feb., 374–78.
- White, Sharon K., and Barbara A. LaSaracina, The Restless Rectangle and the Transforming Trapezoid. Feb., 336–37, 366.
- Wickett, Maryann S., Measuring Up with The Principal's New Clothes. Apr., 476–79.
- —, Saturday Sancocho: A Tasty Introduction to Barter and Division. Dec., 246–49.
- Witherspoon, Mary Lou, And the Answer Is . . . Symbolic Literacy. Mar., 396–99.
- Wolffe, Robert J., and Jean Marie Grant, Changes All Around Us. Dec., 234–35.
- Wurtzel, Judy, Mary Jean LeTendre, and Robin Bouckris, Title I and Mathematics Instruction: Making the Marriage Work. Jan., 270–73.
- Zanger, Virginia Vogel, Math Storybooks. Oct., 98–102.

# Subject Index

# Activities

Are You Puzzled? Mar., 412-15.

Changes All Around Us. Dec., 234-35.

- Darts, Anyone? Responses to the "How Many Times Can You Take One-Half?" Problem. May, 532–36.
- Days of the Month: The Calendar of Mathematics.

  May, 530–31.
- Counting Cubes; Responses to the "Shuffling a Line" Problem, Mar., 406–8.
- Geometric Flips via the Arts. Feb., 379-83.
- Geometry, Feb., 346–47.
- Getting Students Actively Involved in Geometry. May, 526–29.
- Mathematics in Our Environment. Sept., 32–33. The "Measure Me" Doll. Sept., 40–44.
- The Orange Game; Responses to the "Counting Squares" Problem. Mar., 488–90.
- Patterns All Around. Jan., 282-83.
- Picky Patterns. Nov., 174-78.
- Playground Mathematics: Playing with Space. Apr., 474–75.
- So You Have a Problem? Mar., 410-11.
- Take Two: Fair or Unfair? Responses to the "You Gotta Have Heart—and Blood!"

Problem. Jan., 286-88.

This Little Piggy, Jan., 274-80.

Using Mathematics to Tell Stories. Oct., 96-97.

What Are the Clues? Patterns in More Than One Direction; Responses to the "When Will We Reach 1/2?" Problem. Nov., 182-85.

What Shapes Can You Make? Responses to the "How Many Sandwiches?" Problem. Feb., 330-34, 359.

Winter Celebrations and Mathematics. Nov., 180-81.

The World's Largest Math Event: Promoting Mathematical Thinking. Mar., 430-32.

Wrist Bands; Responses to the "Decoration Delight" Problem. Dec., 242-45.

#### Applications

Check Out These Checkbooks: Real-Life Banking for the Classroom. Mar., 422-29.

A Journey through Geometry: Designing a City Park. Feb., 348-52.

Weather Mathematics: Integrating Science and Mathematics. Sept., 19-22.

What Is in the Daily News? Problem-Solving Opportunities! Mar., 390-94.

#### Constructivism

Creating Opportunities for Children to Think Mathematically. Apr., 480-86.

Developing Geometric Thinking through Activities That Begin with Play. Feb., 310-16.

There Are No Algorithms for Teaching Algorithms. Sept., 26-30.

#### Curriculum

Computation in the Elementary Curriculum: Shifting the Emphasis. Dec., 236-41.

Generative Topics: Building a Curriculum around Big Ideas. Apr., 462-68.

Strategies for Basic-Facts Instruction. May, 508-15.

#### **Early Childhood Mathematics**

Creating Opportunities for Children to Think Mathematically, Apr., 480-86.

Helping at Home. Apr., 456-60.

Interweaving Language and Mathematics Literacy through a Story. May, 520-24.

Solving Geometric Problems by Using Unit Blocks. Feb., 318-23.

Subitizing: What Is It? Why Teach It? Mar., 400-405.

What Comes Next? The Mathematics of Pattern in Kindergarten. Dec., 230-33.

#### **Editorials**

Mathematics Is Not a Universal Language. Dec., 214-16.

#### Estimation

Computation in the Elementary Curriculum: Shifting the Emphasis. Dec., 236-41.

Readers' Exchange. Oct., 65; Dec., 212; Apr., 454. Strategies for Basic-Facts Instruction, May, 508-15.

#### Fractions

Building a Foundation for Understanding the

Multiplication of Fractions. Sept., 34-38.

The Quarter Quandary: An Illustration of NCTM's Professional Teaching Standards. Nov., 160-63.

Using Recipes and Ratio Tables to Build on Students' Understanding of Fractions. Dec., 218-24.

Developing Mathematical Understanding through Invented Games. Nov., 191-95.

#### Gender

Reversing the Trend: Latino Families in Real Partnerships with Schools. Jan., 296-300.

### Geometry

Are You Puzzled? Mar., 412-15.

Developing Geometric Thinking through Activities That Begin with Play. Feb., 310-16.

Educating Hannah: It's a What? Feb., 326-29.

Geometric Flips via the Arts. Feb., 379-83.

Geometry, Feb., 346-47.

Geometry Results from the Third International Mathematics and Science Study. Feb., 367-73.

Getting Students Actively Involved in Geometry. May, 526-29.

A Journey through Geometry: Designing a City Park. Feb., 348-52.

Learning Geometry: Some Insights Drawn from Teacher Writing. Feb., 360-66.

Readers' Exchange. Nov., 150.

Shape Up! Feb., 340-45.

Solving Geometric Problems by Using Unit Blocks. Feb., 318-23.

What Makes a Corner a Corner? Sept., 6-9.

Young Children's Developing Understanding of Geometric Shapes. Feb., 353-57.

# **Graphs and Graphing**

Incredible Comparisons: Experiences with Data Collection. Sept., 12-16.

Some Like It Hot: Promoting Measurement and Graphical Thinking by Using Temperature. May, 538-43.

Weather Mathematics: Integrating Science and Mathematics. Sept., 19-22.

#### Home and Community Involvement

Helping at Home. Apr., 456-60.

Reversing the Trend: Latino Families in Real Partnerships with Schools. Jan., 296-300.

Teaching and Learning Creatively: Using Children's Narratives. May, 544-47.

# Literature and Mathematics

Feisty Females: Using Children's Literature with Strong Female Characters. Oct., 88-94.

Incredible Comparisons: Experiences with Data Collection. Sept., 12-16.

Interweaving Language and Mathematics Literacy through a Story. May, 520-24.

Measuring Up with The Principal's New Clothes. Apr., 476-79.

Saturday Sancocho: A Tasty Introduction to Barter and Division. Dec., 246-49.

### Measurement

The "Measure Me" Doll. Sept., 40-44.

Measuring Up with The Principal's New Clothes. Apr., 476-79.

The Restless Rectangle and the Transforming Trapezoid. Feb., 336-37, 366.

Some Like It Hot: Promoting Measurement and Graphical Thinking by Using Temperature. May, 538-43.

This Little Piggy. Jan., 274-80.

#### Money

Check Out These Checkbooks: Real-Life Banking for the Classroom. Mar., 422-29.

Teaching the Values of Coins. Jan., 264-68.

#### Multiculturalism

Mathematics Is Not a Universal Language. Dec., 214-16.

A Mathematics Lesson from the Mayan Civilization. Nov., 154-58.

Readers' Exchange. Nov., 150-51; May, 502.

Teaching and Learning Creatively: Using Children's Narratives. May, 544-47.

# NCTM President's Message, Executive Director's Report

Changes in Your Classroom: From the Past to the Present to the Future. Nov., 202-9.

# Numbers, Number Systems, Number Theory

Exploring Interplanetary Algebra to Understand Earthly Mathematics. Oct., 78-83.

#### Number and Operation Sense

And the Answer Is . . . Symbolic Literacy. Mar.,

Kindergarten Is More Than Counting, Oct., 84-87. Readers' Exchange. Sept., 4, 17.

Students' Explanations of Place Value in Addition and Subtraction. Nov., 164-70.

#### **Patterns**

Developing Algebraic Reasoning in the Elementary Grades. Dec., 225-29.

Exploring Interplanetary Algebra to Understand Earthly Mathematics. Oct., 78-83.

Picky Patterns. Nov., 174-78.

Using Computers for Algebraic Thinking. Nov., 186-90.

What Comes Next? The Mathematics of Pattern in Kindergarten, Dec., 230-33.

#### **Problem Solving**

See also Teaching Methods.

Counting Cubes; Responses to the "Shuffling a Line" Problem. Mar., 406-8.

Darts, Anyone? Responses to the "How Many Times Can You Take One-Half?" Problem. May, 532-36.

Integrating Mathematics with Problem Solving Using the Mathematician's Chair. Mar., 434-41.

The Orange Game; Responses to the "Counting Squares" Problem. Mar., 488-90.

Take Two: Fair or Unfair? Responses to the "You Gotta Have Heart-and Blood!" Problem. Jan., 286-88.

Teaching and Learning Creatively: Using Children's Narratives, May, 544-47.

What Are the Clues? Patterns in More Than One Direction; Responses to the "When Will We Reach 1/2?" Problem. Nov., 182–85.

What Is in the Daily News? Problem-Solving Opportunities! Mar., 390-94.

What Shapes Can You Make? Responses to the "How Many Sandwiches?" Problem. Feb., 330–34, 359.

What's in the Box? A Problem-Solving Lesson and a Discussion about Teaching. May, 504–7.

#### Research

Building a Foundation for Understanding the Multiplication of Fractions. Sept., 34–38.

Developing Algebraic Reasoning in the Elementary Grades. Dec., 225–29.

Geometry Results from the Third International Mathematics and Science Study. Feb., 367–73.

Integrating Mathematics with Problem Solving Using the Mathematician's Chair. Mar., 434-41.

Learning Geometry: Some Insights Drawn from Teacher Writing. Feb., 360–66.

Students' Explanations of Place Value in Addition and Subtraction. Nov., 164–70.

Subitizing: What Is It? Why Teach It? Mar., 400-405.

Young Children's Developing Understanding of Geometric Shapes. Feb., 353–57.

#### **Reviews of Instructional Materials**

# Books

Activities

The Adventures of Penrose: The Mathematical Cat. Nov., 198.

The Magical Math Book. Apr., 495.

Mathamusements. Apr., 495.

MathArts: Exploring Math through Art for 3 to 6 Year Olds. Sept., 57–58.

Mathematics Their Way: Beyond the Book: Activities and Projects from Classrooms Like Yours. Jan., 303.

Mental Math Workout. Apr., 495-96.

More M&M's Brand, Chocolate Candies Math. May, 551-52.

Play and Find Out about Math: Easy Activities for Young Children. Jan., 304.

Applications

Life by the Numbers. May, 552.

Assessment

Developing Judgment: Assessing Children's Work in Mathematics. Oct., 120.

Exploring Classroom Assessment in Mathematics. Oct., 119–20.

Counting

Counting Book. May, 550-51.

Counting on the Woods. Nov., 196.

Cucumber Soup. May, 551.

Henry's Numbers, Henry's Opposites. Jan., 302.
Math Play! 80 Ways to Count and Learn. Oct.,
122–23.

One Less Fish. Apr., 494.

Play and Learn Concepts: Numbers, with Dib, Dab, and Dob; Sizes; Shapes. Jan., 302.

Splash! A Penguin Counting Book. Sept., 56. Surprise! Sept., 56.

Winter Visitors. Nov., 196-97.

#### Curriculum

Discrete Mathematics in the Schools. Sept., 57.

Future Basics: Developing Numerical Power. Mar., 443.

Why Numbers Count: Quantitative Literacy for Tomorrow's America. Nov., 197–98.

#### Early Childhood Mathematics

Enriching Early Mathematical Learning. Nov., 200.

Teaching and Learning Early Number. Dec., 253.

#### Estimation

Classroom Assessment in Mathematics. Mar., 443-44.

Pigs Go to Market: Halloween Fun with Math and Shopping. Oct., 118.

The Teaching and Learning of Algorithms in School Mathematics, 1998 Yearbook. Jan., 302–3.

#### Fractions

The Fraction Family Heads West. Apr., 494-95.

#### Games

Dominoes around the World. Apr., 493.

Math Games and Activities from around the World. May, 552.

#### Gender

Equity, Mathematics Reform, and Research: Crossing Boundaries in Search of Understanding. Dec., 252–53.

Feisty Females: Inspiring Girls to Think Mathematically. Mar., 444–46.

Gender Equity Series: Right from the Start, Instructional Activities, Sources and Resources. Oct., 120–21.

Shape Up! Fun with Triangles and Other Polygons. Feb., 384–85.

# Graphs and Graphing

Reflections on Statistics: Learning, Teaching, and Assessment in Grades K-12. Mar., 446-47.

# History

The Story of Numbers and Counting. Sept., 58-59.

Home and Community Involvement

Math Power: How to Help Your Child Love Math, Even If You Don't. Dec., 253.

#### Literature and Mathematics

The Wonderful World of Mathematics: A Critical-

ly Annotated List of Children's Books in Mathematics. Nov., 198.

#### Logic

Sort It Out: A Beginning Math Book. Sept., 56.

#### Measurement

Math by All Means Series: Area and Perimeter. Oct., 122.

#### Multiculturalism

A String of Beads. Nov., 196.

Number and Operation Sense

More or Less. Sept., 55-56.

Numbers Every Day. Oct., 118.

#### Research

The Number Sense: How the Mind Creates Mathematics. Sept., 58.

Middle-Grade Teachers' Mathematical Knowledge and Its Relationship to Instruction. May, 552–53.

Results from the Sixth Mathematics Assessment of the National Assessment of Educational Progress. Oct., 120.

#### Spatial Sense

Look Book. Jan., 302.

Up, Down, All Around: A Beginning Math Book. Oct., 118.

# Staff Development

Designing Professional Development for Teachers of Science and Mathematics. Dec., 252.

# Teacher Preparation

Elementary and Middle School Mathematics. Nov., 200.

Mathematics Teachers in Transition. Oct., 123.

# Teaching Methods

Collaborative Inquiry in Science, Math, and Technology. Mar., 444.

How to Use Cooperative Learning in the Mathematics Classroom. Sept., 57.

Making Sense: Teaching and Learning Mathematics with Understanding. Oct., 121-22.

Math: Facing an American Phobia. Mar., 446.

#### Writing

Elementary Mathematics and Language Difficulties: A Book for Teachers, Therapists, and Parents. Mar., 444.

Language and Communication in the Mathematics Classroom. Apr., 494.

Measure for Measure: Using Portfolios in K-8 Mathematics, Jan., 303-4.

#### PRODUCTS

# Activities

Create a Co-op City. Dec., 254.

Math Activities with Dominoes. Oct., 126.

Math Plans, Lessons from the Field. Nov., 201,

**MAY 1999** 

What Year Am I? A Math Warm-up a Day, Nov., 210.

Applications

Around the World with Kanga. Sept., 60. Mathtastics Series. Apr., 496.

Assessment

Assessing Mathematics Learning. Oct., 124.

Estimation

Adding Animals, Gr. Pre-K-2, Big Book. Jan., 304.

Mental Math: Addition and Subtraction. Oct.,
126-28

Mondo Math, Addition Facts 1–12. Sept., 61.Step Ahead Workbook Series: Addition and Subtraction. Oct., 128.

Curriculum

A Zero-Based Mathematics Curriculum. Sept., 62.

Early Childhood Mathematics

Count on Math, Activities for Small Hands and Lively Minds. Nov., 200–201.

Fractions

Rational Number Project: Fraction Lessons for the Middle Grades. Apr., 496–97.

Games

Hubbard Math Game Project-Puzzle Cards. Dec.,

Mathtime Playtime. Mar., 448. Tic Tac Toe Math. Apr., 497.

Geometry

Cubic Mania. Feb., 386.

Early Math Program: What's the Shape? Oct., 124.
Giant ManipuLite Floor Pattern Blocks. Oct.,
124-26

Home and Community Involvement Letters to Parents in MATH. Mar., 448.

Literature and Mathematics

Counting Your Way through 1 2 3, School Library Media Series No. 8. Dec., 253–54.

Math and Reading: There IS a Connection! Oct., 126.

Mathematical Problem Solving through Children's Literature: The Indian in the Cupboard. Sept., 60–61.

Logic

Group Solutions, Too! Gr. K-4, Jan. 305-6. Treasure Boxes, Mar., 449-50.

Measurement

Time's Up! Oct., 128.

Money

The Coin-U-Lator. Mar., 447-48.

Number and Operation Sense

Place Value: A Set of Sequential Activities 1–99999. Jan., 306. Numbers, Number Systems, Number Theory
Factor Blocks Deluxe Comprehensive Set. May,

Factor Blocks Deluxe Comprehensive Set. May 553.

Research

Attaining Excellence: A TIMSS Resource Kit. Sept., 59–60.

Spatial Sense

Watch This Space! Location and Interpreting Activities for Gr. 1-2. Dec., 255.

Zome System Teacher's Kit. Feb., 386.

Staff Development

Math Time: Thinking with Numbers. Dec., 254-55.

Teaching Methods

Bob Barlow's Book of Brain Boosters! Jan., 305.
Daily Problems and Weekly Puzzlers, Gr. 3. Jan., 305.

MathTies, A1. Mar., 448.

Quick Thinks Math, A1. Mar., 449.

Super Solvers, P/K; Super Solvers, Gr. 2. Sept., 61–62.

Writing

Write Starts: 101 Writing Prompts for Math, Gr. 6–12. Dec., 255.

# TECHNOLOGY-BASED MATERIALS

Activities

MathTrek 4, 5, 6, Macintosh or Windows. Mar., 442-43.

Estimation

Fizz and Martina's Math Adventures: Blue Falls Elementary, Macintosh or Windows. May, 549.

Gold Medal Math, Macintosh or Windows. Oct., 116.

Larson's Leapfrog Math, Elementary 2, and Intermediate 2, Windows. Sept., 55.

Fractions

Tenth Planet Explores Math: Representing Fractions! Macintosh. Oct., 116–18.

Tenth Planet Number Investigations Series: Equivalent Fractions, Macintosh or Windows. Apr., 492.

Tenth Planet Number Investigations Series: Fraction Operation, Macintosh or Windows. Apr., 492–93.

Geometry

A Journey with Tangrams: Tangram 3.2, Macintosh. Sept., 54.

Graphs and Graphing

The Distance Game, Macintosh or Windows. Feb., 384.

The Graph Club, Macintosh or Windows, Mar., 442.

Spatial Sense

The Factory Deluxe, Macintosh or Windows. Sept., 54.

Teaching Methods

Incredible Tutor: Primary Math, Macintosh or Windows. May, 549–50.

**Spatial Sense** 

"Image Maker": Developing Spatial Sense. Feb., 374–78.

Readers' Exchange. Sept., 4, 17.

Staff Development

Refining Our Efforts. Oct., 68.

Title I and Mathematics Instruction: Making the Marriage Work. Jan., 270-73.

**Teacher Preparation** 

And the Answer Is . . . Symbolic Literacy. Mar., 396–99.

Using Invented Algorithms with Preservice Teachers. May, 516–19.

**Teaching Methods** 

Educating Hannah: It's a What? Feb., 326-29.

Generative Topics: Building a Curriculum around Big Ideas. Apr., 462–68.

Guess the Weight! Solution to the "How Much Film?" Problem. Oct., 104-7.

How Many Times Can You Take One-Half?; Responses to the "Double That Dough" Problem. Sept., 46–50.

Kids + Conjectures = Mathematics Power. Oct., 108–12.

Listening to Students: The Power of Mathematical Conversations. Jan., 289–95.

Math Storybooks. Oct., 98-102.

A Problem Worth Revisiting. Oct., 72-77.

The Quarter Quandary: An Illustration of NCTM's Professional Teaching Standards. Nov., 160–63.

Readers' Exchange. Apr., 454, 55; May, 502–3. Shape Up! Feb., 340–45.

Using Invented Algorithms with Preservice Teachers. May, 516–19.

Wrist Bands; Responses to the "Decoration Delight" Problem. Dec., 242–45.

Technology

Aunty Math's Challenges for Kids, Mar., 420. Cut-the-Knot. Oct., 113.

Lesson Stop and Parents Guide to the Internet. May, 548.

Online Resources from McREL. Apr., 469.

PBS Mathline. Dec., 250.

Using Computers for Algebraic Thinking. Nov., 186-90.

Visit These Sites. Sept., 52-53.

Writing

Contribute to Our Professional Community through TCM. Sept., 1.

Listening to Students: The Power of Mathematical Conversations. Jan., 289–95.

Math Storybooks. Oct., 98-102. ▲