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- Cirillo, Michelle, Corey Drake, and Beth Herbel-Eisenmann. Contemporary Curriculum Issues: Curriculum Vision and Coherence: Adapting Curriculum to Focus on Authentic Mathematics. Aug. 2009, 70–75.
- Kranendonk, Henry. Sound Off! Can We Make High School More Relevant? Feb. 2010, 392– 93.
- Martin, W. Gary. The NCTM High School Curriculum Project: Why It Matters to You. Oct. 2009, 164–66.
- Schoenfeld, Alan H. A Welcome Focus: An Essay

Review of the NCTM High School Curriculum Project. Oct. 2009, 168–71.

# Data Analysis & Statistics

- Bannon, Thomas J. Three Ways to Break a Stick. Aug. 2009, 56–61.
- Daire, Sandra Argüelles. Celebrating Mathematics All Year 'Round. Mar. 2010, 509–13.
- Devlin, Keith. The Pascal-Fermat Correspondence: How Mathematics Is Really Done. Apr. 2010, 578–82.
- Ebert, Dave. Mathematical Lens: Playground Icosahedron. Oct. 2009, 180–82.
- Gibbs, Crystal. Media Clips: Gas Prices; Cigarette Butts. May 2010, 634–37.
- Goodman, Terry. Shooting Free Throws, Probability, and the Golden Ratio. Mar. 2010, 482–87.
- Hall, Randy. Media Clips: New Prime Found; Twinkies. Sept. 2009, 100–102.
- Legé, Jerry. On Fences, Forms, and Mathematical Modeling. Oct. 2009, 184–89.
- Mulekar, Madhuri S., and Murray H. Siegel. How Sample Size Affects a Sampling Distribution. Aug. 2009, 34–42.
- Pendleton, Kenn L. Investigating the Randomness of Numbers. Dec. 2009/Jan. 2010, 364–70.
- Peters, Susan A. Engaging with the Art and Science of Statistics. Mar. 2010, 496–503.
- Rudolph, Heidi J. Technology Tips: Simulation with the TI-Nspire. Dec. 2009/Jan. 2010, 372–75.
- Shafer, Kathryn. Technology Tips: Scrambling Data with Fathom to Simulate the Null Hypothesis. Feb. 2010, 453–57.
- Tamblyn, Michael A. Technology Tips: Multiple Representations Using Dynamic Geometry. Sept. 2009, 146–50.

# **Data Collection**

- Lesser, Lawrence M. Delving Deeper: Sizing Up Class Size: A Deeper Classroom Investigation of Central Tendency. Dec. 2009/Jan. 2010, 376–80.
- Rudolph, Heidi J. Technology Tips: Simulation with the TI-Nspire. Dec. 2009/Jan. 2010, 372–75.
- Vennebush, G. Patrick. The Back Page: My

Favorite Lesson: Paper Pool. Apr. 2010, 624.

#### **Differentiated Instruction**

Goetz, Albert. The Back Page: My Favorite Lesson: Discovering a Derivative. Dec. 2009/Jan. 2010, 384.

#### Discrete Math

Annin, Scott A., and Kevin S. Lai. Common Errors in Counting Problems. Feb. 2010, 402– 9

#### Enrichment/Recreational Mathematics

Fishman, Daniel M. Docfish: A Card Game with Factoring. May 2010, 656–62.

# Equity/Diversity/Special Needs

- Hoffert, Sharon B. Mathematics: The Universal Language? Sept. 2009, 130–39.
- Howard, Christopher A. Mathematics Problems from Ancient Egyptian Papyri. Dec. 2009/Jan. 2010, 332–39.

# **Expected Value**

Mansfield, Darren J. Media Clips: Powerball Winner Revealed. Oct. 2009, 177, 178–79.

# **Experimental Design**

- Pendleton, Kenn L. Investigating the Randomness of Numbers. Dec. 2009/Jan. 2010, 364–70.
- Shafer, Kathryn. Technology Tips: Scrambling Data with Fathom to Simulate the Null Hypothesis. Feb. 2010, 453–57.

# Fractions/Decimals/Percents/Rational Numbers

Hall, Randy. Media Clips: New Prime Found; Twinkies. Sept. 2009, 100–102.

# **Functions and Relations**

- Lancaster, Ron. Media Clips: Fire Hydrants; Night Noises. Aug. 2009, 10–13.
- Legé, Jerry. On Fences, Forms, and Mathematical Modeling. Oct. 2009, 184–89.
- Miller, Jodie A. The Back Page: My Favorite Lesson: One-to-One in Algebra 1. Mar. 2010, 544.
- Mittag, Kathleen Cage, and Sharon Taylor.

Activities for Students: As the Ball Rolls: A Quadratic Investigation Using Multiple Representations. Aug. 2009, 62–68.

Rudolph, Heidi. Mathematical Lens: Making a Pitch for Slope. Apr. 2010, 557–61.

# Functions/Recursion

MacKinnon, Dan. Delving Deeper: Triangulating Polygonal Numbers. Mar. 2010, 535–40.

#### Games/Puzzles

- Johnson, Craig M. Introducing Group Theory through Music. Sept. 2009, 116–22.
- Kaufmann, Matthew L., Megan A. Bomer, and Nancy Norem Powell. Want to Play Geometry? Oct. 2009, 190–95.
- McFeetors, P. Janelle, and Ralph T. Mason. Learning Deductive Reasoning through Games of Logic. Nov. 2009, 284–90.
- Vennebush, G. Patrick. The Back Page: My Favorite Lesson: Paper Pool. Apr. 2010, 624.
- Wanko, Jeffrey J. Japanese Logic Puzzles and Proof. Nov. 2009, 266–71.

# General Public

Kranendonk, Henry. Sound Off! Can We Make High School More Relevant? Feb. 2010, 392– 93.

# Geometric Patterns

- Ebert, Dave. Mathematical Lens: Playground Icosahedron. Oct. 2009, 180–82.
- Garrison, Lionel. The Back Page: Medians of a Triangle: The Search for Invariants. Nov. 2009, 312.
- MacKinnon, Dan. Delving Deeper: Triangulating Polygonal Numbers. Mar. 2010, 535–40.
- Siegrist, Raymond. Activities for Students: Inquiry into Fractals. Oct. 2009, 206–12.
- Starling, Tina T., and Karen F. Hollebrands. Activities for Students: Investigating Star Polygons. Mar. 2010, 525–34.
- Tamblyn, Michael A. Technology Tips: Multiple Representations Using Dynamic Geometry. Sept. 2009, 146–50.
- Vennebush, G. Patrick. The Back Page: My Favorite Lesson: Paper Pool. Apr. 2010, 624.

# Geometry

Linares, Leanne A., and Phil R. Smith. Proof Mapping. Nov. 2009, 258–65.

# Geometry & Measurement

- Applebaum, Mark, and Roza Leikin. Translations toward Connected Mathematics. Apr. 2010, 562–69.
- Bannon, Thomas J. Three Ways to Break a Stick. Aug. 2009, 56–61.
- Barnes, Rachael, and Suzanne Hamon. Proof and Prealgebra. Apr. 2010, 597–602.
- Cirillo, Michelle. Ten Things to Consider When Teaching Proof. Nov. 2009, 250–57.
- Cooper, Brett D., and Rita Barger. Listening to Geometry. Sept. 2009, 108–15.
- Craven, Joshua D. Bridging Algebra and Geometry with *n*-gram Proofs. May 2010, 676–81.
- Daire, Sandra Argüelles. Celebrating Mathematics All Year 'Round. Mar. 2010, 509–13.
- Dirksen, Jennifer, Nathaniel Dirksen, and Ivan Cheng. ProofBlocks: A Visual Approach to Proof. Apr. 2010, 571–76.
- Hanna, William, and Michael S. Davis. Technology Tips: The TI-Nspire and Lissajous Figures. Apr. 2010, 613–15.
- Johnson, Art. Preparing for Formal Proofs in Geometry. Nov. 2009, 291–97.
- Kaufmann, Matthew L., Megan A. Bomer, and Nancy Norem Powell. Want to Play Geometry? Oct. 2009, 190–95.
- Mansfield, Darren J. Media Clips: Powerball Winner Revealed. Oct. 2009, 177, 178–79.
- Mariner, Jean A. Miller, and Richard A. Miller. Algebra, Home Mortgages, and Recessions. Dec. 2009/Jan. 2010, 356–63.
- Muller, Kimberly O. How Technology Can Motivate the Learning of Proof. Feb. 2010, 436–41.
- Peterson, Blake E. The Back Page: My Favorite Lesson: Teaching the Pythagorean Theorem for Understanding. Sept. 2009, 160.
- Posamentier, Alfred S. Delving Deeper: More Gems from Euclidean Geometry. Oct. 2009, 221–226.
- Quinn, Anne Larson. Connecting Research to Teaching: Count on Number Theory to

- Inspire Proof. Nov. 2009, 298-304.
- Ren, Guanshen. Delving Deeper: One Cut, Two Halves, Three Questions. Nov. 2009, 305–9.
- Schultz, Kyle T. Soft Drinks, Mind Reading, and Number Theory. Nov. 2009, 278–83.
- Serratore, Lucie Paquette. Media Clips: Walking the Equator. Feb. 2010, 394, 396.
- Suzuki, Jeff. Modern Geometric Algebra: A (Very Incomplete!) Survey. Aug. 2009, 26–33.
- Tucker, John M. A Lesson on the Slopes of Perpendicular Lines. Apr. 2010, 603–7.
- Warkentin, Don R. Delving Deeper: Janet's Pi-Filling Hypotheses (Archimedes' Method Revisited). Aug. 2009, 81–85.

# Graphing

- Daire, Sandra Argüelles. The Back Page: My Favorite Lesson: Transforming Functions. May 2010, 704.
- Edwards, Thomas G., and Asli Özgün-Koca. Technology Tips: Creating a Mathematical "B" Movie: The Effect of *b* on the Graph of a Quadratic. Oct. 2009, 214–20.
- Mittag, Kathleen Cage, and Sharon Taylor. Activities for Students: As the Ball Rolls: A Quadratic Investigation Using Multiple Representations. Aug. 2009, 62–68.
- Moorlag, Phil. Media Clips: Dolphin Kick. Nov. 2009, 243, 244–45.

# **Higher Education**

- Cuoco, Al, E. Paul Goldenberg, and June Mark. Contemporary Curriculum Issues: Organizing a Curriculum around Mathematical Habits of Mind. May 2010, 682–88.
- Hull, Susan Hudson, and Cathy L. Seeley. Contemporary Curriculum Issues: High School to Postsecondary Education: Challenges of Transition. Feb. 2010, 442–45.

# Inequalities

Perrin, John Robert. An Intriguing Exponential Inequality. Aug. 2009, 50–55.

# Integrals

Haciomeroglu, Erhan Selcuk, Leslie Aspinwall, and Norma C. Presmeg. Connecting Research to Teaching: Visual and Analytic Thinking in

- Calculus. Sept. 2009, 140-45.
- Mathematical Lens: Zero Degrees. Mar. 2010, 478–81.
- Scherger, Nicole. Technology Tips: Using Maple to Enhance Students' Understanding of Numerical Integration. Aug. 2009, 76–80.

# Lesson Plans/Activity Sheets

- Mittag, Kathleen Cage, and Sharon Taylor. Activities for Students: As the Ball Rolls: A Quadratic Investigation Using Multiple Representations. Aug. 2009, 62–68.
- Poetzel, Adam R. Matthew, C. Hopkins, and Joseph J. Muskin. Activities for Students: Moving a Wall: Using Geometry to Measure

an Imperceptible Distance. Feb. 2010, 446-52.

#### Lessons and Resources

Otten, Samuel, Beth A. Herbel-Eisenmann, and Lorraine M. Males. Proof in Algebra: Reasoning beyond Examples. Mar. 2010, 514– 18.

#### Limits

Day, Roger. The Back Page: My Favorite Lesson: De-Icing a VW. Aug. 2009, 88.

# Line of Best Fit/Regression

- Çağlayan, Günhan. Mathematical Lens: Reflections on Vacation Spots. May 2010, 638–41.
- Gibbs, Crystal. Media Clips: Gas Prices; Cigarette Butts. May 2010, 634–37.
- Mathematical Lens: Zero Degrees. Mar. 2010, 478–81.

#### Linear

- Çağlayan, Günhan. Mathematical Lens: Reflections on Vacation Spots. May 2010, 638–41.
- Star, Jon R., Martina Kenyon, Rebecca M. Joiner, and Bethany Rittle-Johnson. Connecting Research to Teaching: Comparing Pays Off! Apr. 2010, 608–12.

# Logic

Kaufmann, Matthew L., Megan A. Bomer, and Nancy Norem Powell. Want to Play

- Geometry? Oct. 2009, 190-95.
- Linares, Leanne A., and Phil R. Smith. Proof Mapping. Nov. 2009, 258–65.
- McFeetors, P. Janelle, and Ralph T. Mason. Learning Deductive Reasoning through Games of Logic. Nov. 2009, 284–90.
- Wanko, Jeffrey J. Japanese Logic Puzzles and Proof. Nov. 2009, 266–71.

# Manipulatives

- Dirksen, Jennifer, Nathaniel Dirksen, and Ivan Cheng. ProofBlocks: A Visual Approach to Proof. Apr. 2010, 571–76.
- Peterson, Blake E. The Back Page: My Favorite Lesson: Teaching the Pythagorean Theorem for Understanding. Sept. 2009, 160.

#### Math Coordinator/Math Coach

- Cirillo, Michelle, Corey Drake, and Beth Herbel-Eisenmann. Contemporary Curriculum Issues: Curriculum Vision and Coherence: Adapting Curriculum to Focus on Authentic Mathematics. Aug. 2009, 70–75.
- Cuoco, Al, E. Paul Goldenberg, and June Mark. Contemporary Curriculum Issues: Organizing a Curriculum around Mathematical Habits of Mind. May 2010, 682–88.
- Daire, Sandra Argüelles. Celebrating Mathematics All Year 'Round. Mar. 2010, 509–13.
- Johnson, Gwendolyn J., Denisse R. Thompson, and Sharon L. Senk. Proof-Related Reasoning in High School Textbooks. Feb. 2010, 410–17.
- Martin, W. Gary. The NCTM High School Curriculum Project: Why It Matters to You. Oct. 2009, 164–66.
- Schoenfeld, Alan H. A Welcome Focus: An Essay Review of the NCTM High School Curriculum Project. Oct. 2009, 168–71.
- Schultz, Kyle T. Soft Drinks, Mind Reading, and Number Theory. Nov. 2009, 278–83.
- Suzuki, Jeff. Sound Off! The Alliance: Mathematics and the Arts. Dec. 2009/Jan. 2010, 318–19.

# **Mathematics History**

Devlin, Keith. The Pascal-Fermat Correspondence: How Mathematics Is Really Done. Apr. 2010, 578–82. Suzuki, Jeff. Modern Geometric Algebra: A (Very Incomplete!) Survey. Aug. 2009, 26–33.

# Mean/Median/Mode

Lesser, Lawrence M. Delving Deeper: Sizing Up Class Size: A Deeper Classroom Investigation of Central Tendency. Dec. 2009/Jan. 2010, 376–80.

# Modeling/Applications/Real World Connections

- Cooper, Brett D., and Rita Barger. Listening to Geometry. Sept. 2009, 108–15.
- Craven, Joshua D. Bridging Algebra and Geometry with *n*-gram Proofs. May 2010, 676–81.
- Daire, Sandra Argüelles. Celebrating Mathematics All Year 'Round. Mar. 2010, 509–13.
- Daire, Sandra Argüelles. Mathematical Lens: Roller Coasters and Railways. Dec. 2009/Jan. 2010, 328–31.
- Day, Roger. The Back Page: My Favorite Lesson: De-Icing a VW. Aug. 2009, 88.
- Goodman, Terry. Shooting Free Throws, Probability, and the Golden Ratio. Mar. 2010, 482–87.
- Hanna, William, and Michael S. Davis. Technology Tips: The TI-Nspire and Lissajous Figures. Apr. 2010, 613–15.
- Johnson, Craig M. Introducing Group Theory through Music. Sept. 2009, 116–22.
- Johnson, Heather L. Investigating the Fundamental Theorem of Calculus. Feb. 2010, 430–35.
- Lancaster, Ron. Media Clips: Fire Hydrants; Night Noises. Aug. 2009, 10–13.
- Legé, Jerry. On Fences, Forms, and Mathematical Modeling. Oct. 2009, 184–89.
- Mansfield, Darren J. Media Clips: Powerball Winner Revealed. Oct. 2009, 177, 178–79.
- Mariner, Jean A. Miller, and Richard A. Miller. Algebra, Home Mortgages, and Recessions. Dec. 2009/Jan. 2010, 356–63.
- Media Clips: Leap-Year Births. Feb. 2010, 395, 396.
- Munakata, Mika, and Aihua Li. Mathematical Lens: Building Mathematically. Aug. 2009, 14–16.

Serratore, Lucie Paquette. Media Clips: Walking the Equator. Feb. 2010, 394, 396.

# **Number and Operations**

Fishman, Daniel M. Docfish: A Card Game with Factoring. May 2010, 656–62.

Johnson, Craig M. Introducing Group Theory through Music. Sept. 2009, 116–22.

#### **Number Patterns**

D'Ambrosio, Beatriz S., Signe E. Kastberg, and João Ricardo Viola dos Santos. Learning from Student Approaches to Algebraic Proofs. Mar. 2010, 489–95.

# **Number Systems**

Quinn, Anne Larson. Connecting Research to Teaching: Count on Number Theory to Inspire Proof. Nov. 2009, 298–304.

# **Number Theory**

D'Ambrosio, Beatriz S., Signe E. Kastberg, and João Ricardo Viola dos Santos. Learning from Student Approaches to Algebraic Proofs. Mar. 2010, 489–95.

Johnson, Craig M. Introducing Group Theory through Music. Sept. 2009, 116–22.

Quinn, Anne Larson. Connecting Research to Teaching: Count on Number Theory to Inspire Proof. Nov. 2009, 298–304.

#### Perimeter/Circumference

Robinson, Bonnie. Media Clips: Fence Building and Composting. Apr. 2010, 554–56.

# Permutations/Combinations/Counting

Nagle, Courtney. Media Clips: Wendy's Burger Variations. Oct. 2009, 176, 178.

# **Polynomials**

Edwards, Thomas G., and Asli Özgün-Koca. Technology Tips: Creating a Mathematical "B" Movie: The Effect of *b* on the Graph of a Quadratic. Oct. 2009, 214–20.

#### **Prime Numbers**

Hall, Randy. Media Clips: New Prime Found;

Twinkies. Sept. 2009, 100-102.

# **Probability**

Annin, Scott A., and Kevin S. Lai. Common Errors in Counting Problems. Feb. 2010, 402– 9.

Bannon, Thomas J. Three Ways to Break a Stick. Aug. 2009, 56–61.

Devlin, Keith. The Pascal-Fermat Correspondence: How Mathematics Is Really Done. Apr. 2010, 578–82.

Mansfield, Darren J. Media Clips: Powerball Winner Revealed. Oct. 2009, 177, 178–79.

Mulekar, Madhuri S., and Murray H. Siegel. How Sample Size Affects a Sampling Distribution. Aug. 2009, 34–42.

Rudolph, Heidi J. Technology Tips: Simulation with the TI-Nspire. Dec. 2009/Jan. 2010, 372–75.

# Problem Solving/Problem Posing

Applebaum, Mark, and Roza Leikin. Translations toward Connected Mathematics. Apr. 2010, 562–69.

Çağlayan, Günhan. Mathematical Lens: Reflections on Vacation Spots. May 2010, 638–41.

Calendar (Apr. 2010). Apr. 2010, 584-89.

Calendar (Aug. 2009). Aug. 2009, 44-48.

Calendar (Dec. 2009). Dec. 2009/Jan. 2010, 347, 350, 351–53.

Calendar (Feb. 2010). Feb. 2010, 424-28.

Calendar (Jan. 2010). Dec. 2009/Jan. 2010, 348–49, 354–55.

Calendar (March 2010). Mar. 2010, 504-7.

Calendar (May 2010). May 2010, 664-68.

Calendar (Nov. 2009). Nov. 2009, 272-77.

Calendar (Oct. 2009). Oct. 2009, 196-99.

Calendar (Sept. 2009). Sept. 2009, 124-29.

Devlin, Keith. The Pascal-Fermat

Correspondence: How Mathematics Is Really Done. Apr. 2010, 578–82.

Edwards, C. C. Media Clips: Storms and Water Usage. Dec. 2009/Jan. 2010, 324, 326.

Gibbs, Crystal. Media Clips: Gas Prices; Cigarette Butts. May 2010, 634–37.

Goodman, Terry. Shooting Free Throws, Probability, and the Golden Ratio. Mar. 2010,

- 482 87.
- Kerr, Stephen. Media Clips: Water Drop. Nov. 2009, 242, 244.
- Mathematical Lens: Mathematical License. Feb. 2010, 398–401.
- Media Clips: Leap-Year Births. Feb. 2010, 395, 396.
- Mittag, Kathleen Cage, and Sharon Taylor. Activities for Students: As the Ball Rolls: A Quadratic Investigation Using Multiple Representations. Aug. 2009, 62–68.
- Moorlag, Phil. Media Clips: Dolphin Kick. Nov. 2009, 243, 244–45.
- Muttiah, Daniel. Media Clips: Swine Flu. Dec. 2009/Jan. 2010, 325, 326–27.
- Poetzel, Adam R. Matthew, C. Hopkins, and Joseph J. Muskin. Activities for Students: Moving a Wall: Using Geometry to Measure an Imperceptible Distance. Feb. 2010, 446–52.
- Ren, Guanshen. Delving Deeper: One Cut, Two Halves, Three Questions. Nov. 2009, 305–9.
- Serratore, Lucie Paquette. Media Clips: Walking the Equator. Feb. 2010, 394, 396.
- Szydlik, Stephen D. The Problem with the Snack Food Problem. Aug. 2009, 18–25.
- Vennebush, G. Patrick. The Back Page: My Favorite Lesson: Paper Pool. Apr. 2010, 624.
- Wanko, Jeffrey J. Japanese Logic Puzzles and Proof. Nov. 2009, 266–71.

# **Professional Development**

- Burke, Maurice J., and Ted R. Hodgson. Delving Deeper: Growth Rates and the Marvelous Geometric Sequence. Feb. 2010, 458–62.
- Cirillo, Michelle. Ten Things to Consider When Teaching Proof. Nov. 2009, 250–57.
- Day, Roger. The Back Page: My Favorite Lesson: De-Icing a VW. Aug. 2009, 88.
- Gilbert, Michael J., and Jacqueline Coomes. What Mathematics Do High School Teachers Need to Know? Feb. 2010, 418–23.
- Hartter, Beverly J. A Function or Not a Function? That Is the Question. Oct. 2009, 200–205.
- Howard, Christopher A. Mathematics Problems from Ancient Egyptian Papyri. Dec. 2009/Jan. 2010, 332–39.
- Hull, Susan Hudson, and Cathy L. Seeley. Contemporary Curriculum Issues: High School

- to Postsecondary Education: Challenges of Transition. Feb. 2010, 442–45.
- Kotelawala, Usha. Collaborative Planning for a Unit on the Quadratic Formula. May 2010, 669–74.
- Martin, W. Gary. The NCTM High School Curriculum Project: Why It Matters to You. Oct. 2009, 164–66.
- Peters, Susan A. Engaging with the Art and Science of Statistics. Mar. 2010, 496–503.
- Peterson, Blake E. The Back Page: My Favorite Lesson: Teaching the Pythagorean Theorem for Understanding. Sept. 2009, 160.
- Schoenfeld, Alan H. A Welcome Focus: An Essay Review of the NCTM High School Curriculum Project. Oct. 2009, 168–71.
- Star, Jon R., Martina Kenyon, Rebecca M. Joiner, and Bethany Rittle-Johnson. Connecting Research to Teaching: Comparing Pays Off! Apr. 2010, 608–12.

# Professional Development/ Teacher Education

- Burke, Maurice J., and Ted R. Hodgson. Delving Deeper: Growth Rates and the Marvelous Geometric Sequence. Feb. 2010, 458–62.
- Kranendonk, Henry. Sound Off! Can We Make High School More Relevant? Feb. 2010, 392– 93.

# Quadratics

- Butler, Douglas. Technology Tips: Why Are Shot Puts Thrown at 31°? Using Autograph for Applications of the Parabola. May 2010, 689– 92.
- Edwards, Thomas G., and Asli Özgün-Koca. Technology Tips: Creating a Mathematical "B" Movie: The Effect of *b* on the Graph of a Quadratic. Oct. 2009, 214–20.
- Kerr, Stephen. Media Clips: Water Drop. Nov. 2009, 242, 244.
- McNamee, Rick. The Back Page: My Favorite Lesson: Making Connections and Communicating Ideas. Feb. 2010, 464.
- Miller, Jodie A. The Back Page: My Favorite Lesson: One-to-One in Algebra 1. Mar. 2010, 544.
- Mittag, Kathleen Cage, and Sharon Taylor.

- Activities for Students: As the Ball Rolls: A Quadratic Investigation Using Multiple Representations. Aug. 2009, 62–68.
- Munakata, Mika, and Aihua Li. Mathematical Lens: Building Mathematically. Aug. 2009, 14–16.

# Ratios/Proportions

- Burke, Maurice J., and Ted R. Hodgson. Delving Deeper: Growth Rates and the Marvelous Geometric Sequence. Feb. 2010, 458–62.
- Daire, Sandra Argüelles. Mathematical Lens: Roller Coasters and Railways. Dec. 2009/Jan. 2010, 328–31.
- Gibbs, Crystal. Media Clips: Gas Prices; Cigarette Butts. May 2010, 634–37.
- Poetzel, Adam R. Matthew, C. Hopkins, and Joseph J. Muskin. Activities for Students: Moving a Wall: Using Geometry to Measure an Imperceptible Distance. Feb. 2010, 446–52.

# Reasoning and Proof

- Annin, Scott A., and Kevin S. Lai. Common Errors in Counting Problems. Feb. 2010, 402– 9.
- Applebaum, Mark, and Roza Leikin. Translations toward Connected Mathematics. Apr. 2010, 562–69.
- Barnes, Rachael, and Suzanne Hamon. Proof and Prealgebra. Apr. 2010, 597–602.
- Cirillo, Michelle. Ten Things to Consider When Teaching Proof. Nov. 2009, 250–57.
- Craven, Joshua D. Bridging Algebra and Geometry with *n*-gram Proofs. May 2010, 676–81.
- D'Ambrosio, Beatriz S., Signe E. Kastberg, and João Ricardo Viola dos Santos. Learning from Student Approaches to Algebraic Proofs. Mar. 2010, 489–95.
- Devlin, Keith. The Pascal-Fermat Correspondence: How Mathematics Is Really Done. Apr. 2010, 578–82.
- Dirksen, Jennifer, Nathaniel Dirksen, and Ivan Cheng. ProofBlocks: A Visual Approach to Proof. Apr. 2010, 571–76.
- Johnson, Art. Preparing for Formal Proofs in Geometry. Nov. 2009, 291–97.
- Johnson, Craig M. Introducing Group Theory

- through Music. Sept. 2009, 116-22.
- Johnson, Gwendolyn J., Denisse R. Thompson, and Sharon L. Senk. Proof-Related Reasoning in High School Textbooks. Feb. 2010, 410–17.
- Kaufmann, Matthew L., Megan A. Bomer, and Nancy Norem Powell. Want to Play Geometry? Oct. 2009, 190–95.
- Kotelawala, Usha. Collaborative Planning for a Unit on the Quadratic Formula. May 2010, 669–74.
- Linares, Leanne A., and Phil R. Smith. Proof Mapping. Nov. 2009, 258–65.
- McFeetors, P. Janelle, and Ralph T. Mason. Learning Deductive Reasoning through Games of Logic. Nov. 2009, 284–90.
- Mingus, Tabitha T. Y., Richard M. Grassl, Ricardo Diaz, Lane Andrew, and Frieda Parker. Delving Deeper: Enumeration of Rectangles in a Tableau Shape. May 2010, 693–98.
- Muller, Kimberly O. How Technology Can Motivate the Learning of Proof. Feb. 2010, 436–41
- Otten, Samuel, Beth A. Herbel-Eisenmann, and Lorraine M. Males. Proof in Algebra: Reasoning beyond Examples. Mar. 2010, 514– 18.
- Perrin, John Robert. An Intriguing Exponential Inequality. Aug. 2009, 50–55.
- Quinn, Anne Larson. Connecting Research to Teaching: Count on Number Theory to Inspire Proof. Nov. 2009, 298–304.
- Ren, Guanshen. Delving Deeper: One Cut, Two Halves, Three Questions. Nov. 2009, 305–9.
- Schultz, Kyle T. Soft Drinks, Mind Reading, and Number Theory. Nov. 2009, 278–83.
- Tamblyn, Michael A. Technology Tips: Multiple Representations Using Dynamic Geometry. Sept. 2009, 146–50.
- Tucker, John M. A Lesson on the Slopes of Perpendicular Lines. Apr. 2010, 603–7.
- Wanko, Jeffrey J. Japanese Logic Puzzles and Proof. Nov. 2009, 266–71.

#### Regression

Legé, Jerry. On Fences, Forms, and Mathematical Modeling. Oct. 2009, 184–89.

# Representation

- Baltus, Christopher. Connected Representations: From Proportion to Linear Functions. Apr. 2010, 590–96.
- Butler, Douglas. Technology Tips: Why Are Shot Puts Thrown at 31°? Using Autograph for Applications of the Parabola. May 2010, 689– 92.
- Cooper, Brett D., and Rita Barger. Listening to Geometry. Sept. 2009, 108–15.
- Goodman, Terry. Shooting Free Throws, Probability, and the Golden Ratio. Mar. 2010, 482–87.
- Haciomeroglu, Erhan Selcuk, Leslie Aspinwall, and Norma C. Presmeg. Connecting Research to Teaching: Visual and Analytic Thinking in Calculus. Sept. 2009, 140–45.
- Hartter, Beverly J. A Function or Not a Function? That Is the Question. Oct. 2009, 200–205.
- Howard, Christopher A. Mathematics Problems from Ancient Egyptian Papyri. Dec. 2009/Jan. 2010, 332–39.

#### Research

- Haciomeroglu, Erhan Selcuk, Leslie Aspinwall, and Norma C. Presmeg. Connecting Research to Teaching: Visual and Analytic Thinking in Calculus. Sept. 2009, 140–45.
- Quinn, Anne Larson. Connecting Research to Teaching: Count on Number Theory to Inspire Proof. Nov. 2009, 298–304.
- Star, Jon R., Martina Kenyon, Rebecca M. Joiner, and Bethany Rittle-Johnson. Connecting Research to Teaching: Comparing Pays Off! Apr. 2010, 608–12.
- Teuscher, Dawn, and Robert E. Reys. Connecting Research to Teaching: Slope, Rate of Change, and Steepness: Do Students Understand these Concepts? Mar. 2010, 519–24.

# Right Triangle

- Robinson, Bonnie. Media Clips: Fence Building and Composting. Apr. 2010, 554–56.
- Rudolph, Heidi. Mathematical Lens: Making a Pitch for Slope. Apr. 2010, 557–61.

# Sampling

Shafer, Kathryn. Technology Tips: Scrambling

Data with Fathom to Simulate the Null Hypothesis. Feb. 2010, 453–57.

# Sequences/Series

- Burke, Maurice J., and Ted R. Hodgson. Delving Deeper: Growth Rates and the Marvelous Geometric Sequence. Feb. 2010, 458–62.
- Day, Roger. The Back Page: My Favorite Lesson: De-Icing a VW. Aug. 2009, 88.
- Lesser, Lawrence M. Media Clips: The High School Weirdness Factor. Mar. 2010, 474, 476–77.
- MacKinnon, Dan. Delving Deeper: Triangulating Polygonal Numbers. Mar. 2010, 535–40.
- Seppala-Holtzman, David N., and Francisco R. Rangel. Delving Deeper: Converging on the Eye of God. Sept. 2009, 151–55.
- Siegrist, Raymond. Activities for Students: Inquiry into Fractals. Oct. 2009, 206–12.

# **Shapes**

- MacKinnon, Dan. Delving Deeper: Triangulating Polygonal Numbers. Mar. 2010, 535–40.
- Starling, Tina T., and Karen F. Hollebrands. Activities for Students: Investigating Star Polygons. Mar. 2010, 525–34.
- Walter, Marion, and Don Crossfield. Delving Deeper: From Chords of Circles to Triangular Numbers to Volumes of Spheres. Apr. 2010, 616–21.

# Similarity/Congruence

Mathematical Lens: Planes, Ferries, and Cylinders: Some Conic Sections. Sept. 2009, 104–7.

# Skill and Fluency

Johnson, Gwendolyn J., Denisse R. Thompson, and Sharon L. Senk. Proof-Related Reasoning in High School Textbooks. Feb. 2010, 410–17.

# Slope

- Çağlayan, Günhan. Mathematical Lens: Reflections on Vacation Spots. May 2010, 638–41.
- Daire, Sandra Argüelles. Mathematical Lens: Roller Coasters and Railways. Dec. 2009/Jan. 2010, 328–31.

- Robinson, Bonnie. Media Clips: Fence Building and Composting. Apr. 2010, 554–56.
- Rudolph, Heidi. Mathematical Lens: Making a Pitch for Slope. Apr. 2010, 557–61.
- Teuscher, Dawn, and Robert E. Reys. Connecting Research to Teaching: Slope, Rate of Change, and Steepness: Do Students Understand these Concepts? Mar. 2010, 519–24.
- Tucker, John M. A Lesson on the Slopes of Perpendicular Lines. Apr. 2010, 603–7.

# **Symmetry**

Starling, Tina T., and Karen F. Hollebrands. Activities for Students: Investigating Star Polygons. Mar. 2010, 525–34.

# Systems of Equations

Ebert, Dave. Mathematical Lens: Playground Icosahedron. Oct. 2009, 180–82.

#### **Teacher**

- Annin, Scott A., and Kevin S. Lai. Common Errors in Counting Problems. Feb. 2010, 402– 9.
- Barnes, Rachael, and Suzanne Hamon. Proof and Prealgebra. Apr. 2010, 597–602.
- Burke, Maurice J., and Ted R. Hodgson. Delving Deeper: Growth Rates and the Marvelous Geometric Sequence. Feb. 2010, 458–62.
- Butler, Douglas. Technology Tips: Why Are Shot Puts Thrown at 31°? Using Autograph for Applications of the Parabola. May 2010, 689– 92.
- Çağlayan, Günhan. Mathematical Lens: Reflections on Vacation Spots. May 2010, 638–41.
- Cirillo, Michelle. Ten Things to Consider When Teaching Proof. Nov. 2009, 250–57.
- Cirillo, Michelle, Corey Drake, and Beth Herbel-Eisenmann. Contemporary Curriculum Issues: Curriculum Vision and Coherence: Adapting Curriculum to Focus on Authentic Mathematics. Aug. 2009, 70–75.
- Cooper, Brett D., and Rita Barger. Listening to Geometry. Sept. 2009, 108–15.
- Craven, Joshua D. Bridging Algebra and Geometry with *n*-gram Proofs. May 2010, 676–81.

- Cuoco, Al, E. Paul Goldenberg, and June Mark. Contemporary Curriculum Issues: Organizing a Curriculum around Mathematical Habits of Mind. May 2010, 682–88.
- D'Ambrosio, Beatriz S., Signe E. Kastberg, and João Ricardo Viola dos Santos. Learning from Student Approaches to Algebraic Proofs. Mar. 2010, 489–95.
- Daire, Sandra Argüelles. Celebrating Mathematics All Year 'Round. Mar. 2010, 509–13.
- Daire, Sandra Argüelles. Mathematical Lens: Roller Coasters and Railways. Dec. 2009/Jan. 2010, 328–31.
- Devlin, Keith. The Pascal-Fermat Correspondence: How Mathematics Is Really Done. Apr. 2010, 578–82.
- Dirksen, Jennifer, Nathaniel Dirksen, and Ivan Cheng. ProofBlocks: A Visual Approach to Proof. Apr. 2010, 571–76.
- Fishman, Daniel M. Docfish: A Card Game with Factoring. May 2010, 656–62.
- Fukawa-Connelly, Timothy, and Stephen Buck. Using Portfolio Assignments to Assess Students' Mathematical Thinking. May 2010, 649–54.
- Gibbs, Crystal. Media Clips: Gas Prices; Cigarette Butts. May 2010, 634–37.
- Goodman, Terry. Shooting Free Throws, Probability, and the Golden Ratio. Mar. 2010, 482–87.
- Haciomeroglu, Erhan Selcuk, Leslie Aspinwall, and Norma C. Presmeg. Connecting Research to Teaching: Visual and Analytic Thinking in Calculus. Sept. 2009, 140–45.
- Hanna, William, and Michael S. Davis. Technology Tips: The TI-Nspire and Lissajous Figures. Apr. 2010, 613–15.
- Hoffert, Sharon B. Mathematics: The Universal Language? Sept. 2009, 130–39.
- Howard, Christopher A. Mathematics Problems from Ancient Egyptian Papyri. Dec. 2009/Jan. 2010, 332–39.
- Hull, Susan Hudson, and Cathy L. Seeley. Contemporary Curriculum Issues: High School to Postsecondary Education: Challenges of Transition. Feb. 2010, 442–45.
- Johnson, Art. Preparing for Formal Proofs in Geometry. Nov. 2009, 291–97.

- Johnson, Craig M. Introducing Group Theory through Music. Sept. 2009, 116–22.
- Johnson, Gwendolyn J., Denisse R. Thompson, and Sharon L. Senk. Proof-Related Reasoning in High School Textbooks. Feb. 2010, 410–17.
- Kotelawala, Usha. Collaborative Planning for a Unit on the Quadratic Formula. May 2010, 669–74.
- Kranendonk, Henry. Sound Off! Can We Make High School More Relevant? Feb. 2010, 392– 93.
- Legé, Jerry. On Fences, Forms, and Mathematical Modeling. Oct. 2009, 184–89.
- Linares, Leanne A., and Phil R. Smith. Proof Mapping. Nov. 2009, 258–65.
- Mansfield, Darren J. Media Clips: Powerball Winner Revealed. Oct. 2009, 177, 178–79.
- Mariner, Jean A. Miller, and Richard A. Miller. Algebra, Home Mortgages, and Recessions. Dec. 2009/Jan. 2010, 356–63.
- McFeetors, P. Janelle, and Ralph T. Mason. Learning Deductive Reasoning through Games of Logic. Nov. 2009, 284–90.
- Mingus, Tabitha T. Y., Richard M. Grassl, Ricardo Diaz, Lane Andrew, and Frieda Parker. Delving Deeper: Enumeration of Rectangles in a Tableau Shape. May 2010, 693–98.
- Mittag, Kathleen Cage, and Sharon Taylor.
  Activities for Students: As the Ball Rolls: A
  Otten, Samuel, Beth A. Herbel-Eisenmann,
  and Lorraine M. Males. Proof in Algebra:
  Reasoning beyond Examples. Mar. 2010, 514–
  18.
- Pendleton, Kenn L. Investigating the Randomness of Numbers. Dec. 2009/Jan. 2010, 364–70.
- Peters, Susan A. Engaging with the Art and Science of Statistics. Mar. 2010, 496–503.
- Quadratic Investigation Using Multiple Representations. Aug. 2009, 62–68.
- Munakata, Mika, and Aihua Li. Mathematical Lens: Building Mathematically. Aug. 2009, 14–16.
- Ren, Guanshen. Delving Deeper: One Cut, Two Halves, Three Questions. Nov. 2009, 305–9.
- Rudolph, Heidi J. Technology Tips: Simulation with the TI-Nspire. Dec. 2009/Jan. 2010, 372–75.

- Scherger, Nicole. Technology Tips: Using Maple to Enhance Students' Understanding of Numerical Integration. Aug. 2009, 76–80.
- Shafer, Kathryn. Technology Tips: Scrambling Data with Fathom to Simulate the Null Hypothesis. Feb. 2010, 453–57.
- Star, Jon R., Martina Kenyon, Rebecca M. Joiner, and Bethany Rittle-Johnson. Connecting Research to Teaching: Comparing Pays Off! Apr. 2010, 608–12.
- Suzuki, Jeff. Sound Off! The Alliance: Mathematics and the Arts. Dec. 2009/Jan. 2010, 318–19.
- Tucker, John M. A Lesson on the Slopes of Perpendicular Lines. Apr. 2010, 603–7.
- Warkentin, Don R. Delving Deeper: Janet's Pi-Filling Hypotheses (Archimedes' Method Revisited). Aug. 2009, 81–85.

# **Teacher Education**

Haciomeroglu, Erhan Selcuk, Leslie Aspinwall, and Norma C. Presmeg. Connecting Research to Teaching: Visual and Analytic Thinking in Calculus. Sept. 2009, 140–45.

# Teacher in Training/ Preservice

- Baltus, Christopher. Connected Representations: From Proportion to Linear Functions. Apr. 2010, 590–96.
- Muller, Kimberly O. How Technology Can Motivate the Learning of Proof. Feb. 2010, 436–41.

# **Technology**

- Butler, Douglas. Technology Tips: Why Are Shot Puts Thrown at 31°? Using Autograph for Applications of the Parabola. May 2010, 689– 92.
- Daire, Sandra Argüelles. The Back Page: My Favorite Lesson: Transforming Functions. May 2010, 704.
- Hanna, William, and Michael S. Davis. Technology Tips: The TI-Nspire and Lissajous Figures. Apr. 2010, 613–15.
- Johnson, Heather L. Investigating the Fundamental Theorem of Calculus. Feb. 2010, 430–35.

- Legé, Jerry. On Fences, Forms, and Mathematical Modeling. Oct. 2009, 184–89.
- Mathematical Lens: Planes, Ferries, and Cylinders: Some Conic Sections. Sept. 2009, 104–7.
- Muller, Kimberly O. How Technology Can Motivate the Learning of Proof. Feb. 2010, 436–41.
- Munakata, Mika, and Aihua Li. Mathematical Lens: Building Mathematically. Aug. 2009, 14–16.
- Scherger, Nicole. Technology Tips: Using Maple to Enhance Students' Understanding of Numerical Integration. Aug. 2009, 76–80.
- Shafer, Kathryn. Technology Tips: Scrambling Data with Fathom to Simulate the Null Hypothesis. Feb. 2010, 453–57.
- Starling, Tina T., and Karen F. Hollebrands. Activities for Students: Investigating Star Polygons. Mar. 2010, 525–34.

#### **Theory**

- Cirillo, Michelle, Corey Drake, and Beth Herbel-Eisenmann. Contemporary Curriculum Issues: Curriculum Vision and Coherence: Adapting Curriculum to Focus on Authentic Mathematics. Aug. 2009, 70–75.
- Cuoco, Al, E. Paul Goldenberg, and June Mark. Contemporary Curriculum Issues: Organizing a Curriculum around Mathematical Habits of Mind. May 2010, 682–88.
- Otten, Samuel, Beth A. Herbel-Eisenmann, and Lorraine M. Males. Proof in Algebra: Reasoning beyond Examples. Mar. 2010, 514– 18.
- Teuscher, Dawn, and Robert E. Reys. Connecting Research to Teaching: Slope, Rate of Change, and Steepness: Do Students Understand these Concepts? Mar. 2010, 519–24.

# 3D Shapes

- Mathematical Lens: Planes, Ferries, and Cylinders: Some Conic Sections. Sept. 2009, 104–7.
- Walter, Marion, and Don Crossfield. Delving Deeper: From Chords of Circles to Triangular Numbers to Volumes of Spheres. Apr. 2010, 616–21.

Zanetti, Mary. Mathematical Lens: Woodstock Revisited. Nov. 2009, 246–49.

# Time/Money

Warner, Aaron J. Media Clips: Green Design. Mar. 2010, 475, 477.

#### **Transformations**

- Çağlayan, Günhan. Mathematical Lens: Reflections on Vacation Spots. May 2010, 638–41.
- Edwards, Thomas G., and Asli Özgün-Koca. Technology Tips: Creating a Mathematical "B" Movie: The Effect of *b* on the Graph of a Quadratic. Oct. 2009, 214–20.
- Johnson, Craig M. Introducing Group Theory through Music. Sept. 2009, 116–22.
- Siegrist, Raymond. Activities for Students: Inquiry into Fractals. Oct. 2009, 206–12.

# Trigonometry/Precalculus

- Butler, Douglas. Technology Tips: Why Are Shot Puts Thrown at 31°? Using Autograph for Applications of the Parabola. May 2010, 689– 92.
- Gordon, Sheldon P. Doubling Time for Nonexponential Families of Functions. May 2010, 642–48.
- Hanna, William, and Michael S. Davis. Technology Tips: The TI-Nspire and Lissajous Figures. Apr. 2010, 613–15.
- Kerr, Stephen. Media Clips: Water Drop. Nov. 2009, 242, 244.
- Mathematical Lens: Planes, Ferries, and Cylinders: Some Conic Sections. Sept. 2009, 104–7.
- Mansfield, Darren J. Media Clips: Powerball Winner Revealed. Oct. 2009, 177, 178–79.
- Mariner, Jean A. Miller, and Richard A. Miller. Algebra, Home Mortgages, and Recessions. Dec. 2009/Jan. 2010, 356–63.
- Mathematical Lens: Mathematical License. Feb. 2010, 398–401.
- Perrin, John Robert. An Intriguing Exponential Inequality. Aug. 2009, 50–55.
- Poetzel, Adam R. Matthew, C. Hopkins, and Joseph J. Muskin. Activities for Students: Moving a Wall: Using Geometry to Measure

- an Imperceptible Distance. Feb. 2010, 446-52.
- Robinson, Bonnie. Media Clips: Fence Building and Composting. Apr. 2010, 554–56.
- Rudolph, Heidi. Mathematical Lens: Making a Pitch for Slope. Apr. 2010, 557–61.
- Spanik, Anna. The Back Page: My Favorite Lesson: Building the Unit Circle: A Patty Paper Approach. Oct. 2009, 232.
- Warkentin, Don R. Delving Deeper: Janet's Pi-Filling Hypotheses (Archimedes' Method Revisited). Aug. 2009, 81–85.
- Zanetti, Mary. Mathematical Lens: Woodstock Revisited. Nov. 2009, 246–49.

# Undergrad/Grad Ed

Applebaum, Mark, and Roza Leikin. Translations toward Connected Mathematics. Apr. 2010, 562–69.

# Variability

- Lesser, Lawrence M. Media Clips: The High School Weirdness Factor. Mar. 2010, 474, 476–77.
- Shafer, Kathryn. Technology Tips: Scrambling Data with Fathom to Simulate the Null Hypothesis. Feb. 2010, 453–57.

#### Volume

- Edwards, C. C. Media Clips: Storms and Water Usage. Dec. 2009/Jan. 2010, 324, 326.
- Mathematical Lens: Planes, Ferries, and Cylinders: Some Conic Sections. Sept. 2009, 104–7.
- Robinson, Bonnie. Media Clips: Fence Building and Composting. Apr. 2010, 554–56.

# Whole Numbers/Natural Numbers/Counting Numbers

Mingus, Tabitha T. Y., Richard M. Grassl, Ricardo Diaz, Lane Andrew, and Frieda Parker. Delving Deeper: Enumeration of Rectangles in a Tableau Shape. May 2010, 693–98.