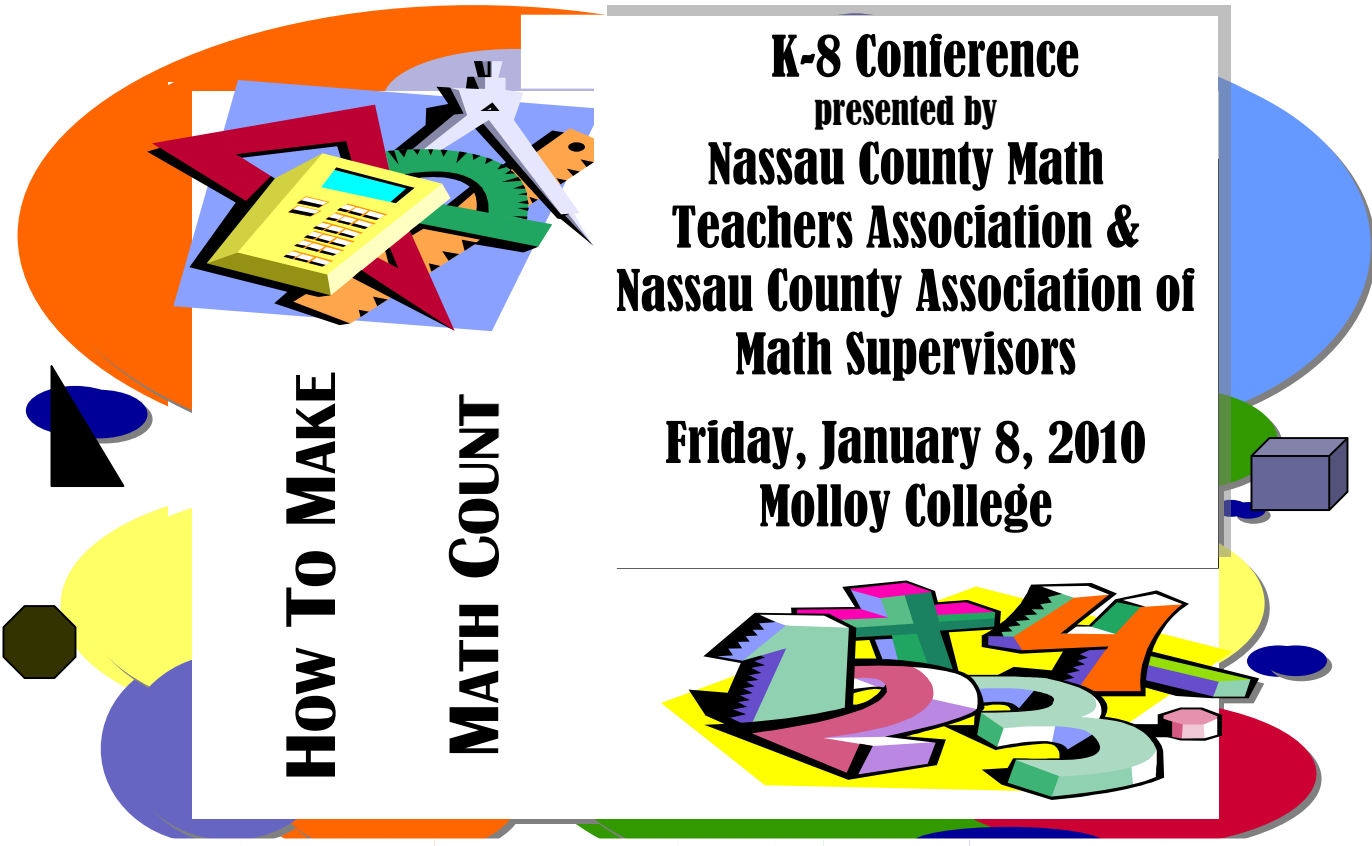


**How To Make Math Count**

Dorothy Hess  
100 Daly Blvd., #2310  
Oceanside, NY 11572



**K-8 Conference**  
presented by  
**Nassau County Math  
Teachers Association &  
Nassau County Association of  
Math Supervisors**

**Friday, January 8, 2010  
Molloy College**

**HOW TO MAKE**

**MATH COUNT**



*Nassau County Mathematics Teachers Association  
Nassau County Association of Math Supervisors*

**Present a K-8 Conference**

HOW TO MAKE MATH COUNT

**Molloy College  
Friday, January 8, 2010 8:00 A.M. – 2:15 P.M.**

**Join us for a special day, designed to meet the curriculum and assessment concerns of elementary and middle school teachers.** We are offering 50 workshop sessions. These workshops include teacher-tested ideas, models, demonstrations, techniques, and hands-on activities that can be used in the classroom the very next day. Again this year we are fortunate to have exhibitors so you will have an opportunity to speak with vendors and peruse materials.

We are thrilled to announce that Dr. Alice Artzt, professor of Mathematics Education at Queens College, along with a team of teachers who are graduates of Time 2000: A Math Teaching Program, - Eric Glatz, Kendal Jones Askins, Samantha MacKinnon, Lysaundra Bisal, Sylvia Liu, Tanica Meade and John Aguirre, will deliver the keynote address, "Math and Humor, No Joking!". Who would believe that mathematics can be humorous? Who would believe that humor has an important role in learning mathematics? This keynote will address the value of humor in the mathematics classroom and include snippets of humorous mathematics lessons for grades K-8. Get ready for a few good laughs that can travel right down into your own classrooms!

Please fill out the registration form in this packet and enclose a check or purchase order for \$45 (full time students or student teachers, \$25), made payable to Treasurer, N.C.A.M.S. Registration forms must be returned by **December 22, 2009**. Due to the fact that the ELA assessment tests have been moved to May, we expect a large response. **Register early** so you get your first choices for sessions. You will **not** receive confirmation of registration in the mail. **Your schedule for the day will be waiting for you at the registration desk in the lobby of Wilbur Arts Center on January 8.** A continental breakfast will be served.

Participants will be scheduled for three out of four sessions, leaving time for lunch and time to visit the exhibit area. *Lunch is included in the cost of the conference.*

If you have any questions about the program, please contact Gerry Johnson (516-752-6661) or Debra Harley (516-478-5544) during the day or Ronni David (516-359-2794) in the evening. If you have any questions about registration, email Dorothy Hess at [makemathcount@aol.com](mailto:makemathcount@aol.com). To check to see if your registration was received, email Susan Greenberg at [makemathcount@gmail.com](mailto:makemathcount@gmail.com)

**TIME SCHEDULE**

Registration, Coffee, Exhibits	8:00 - 8:40
Keynote Address	8:45 - 9:50
Session 1	10:05 - 11:00
Session 2 or Lunch and Exhibits	11:10 - 12:05
Session 3 or Lunch and Exhibits	12:15 - 1:10
Session 4	1:20 - 2:15

*How to Make Math Count  
Planning Committee*

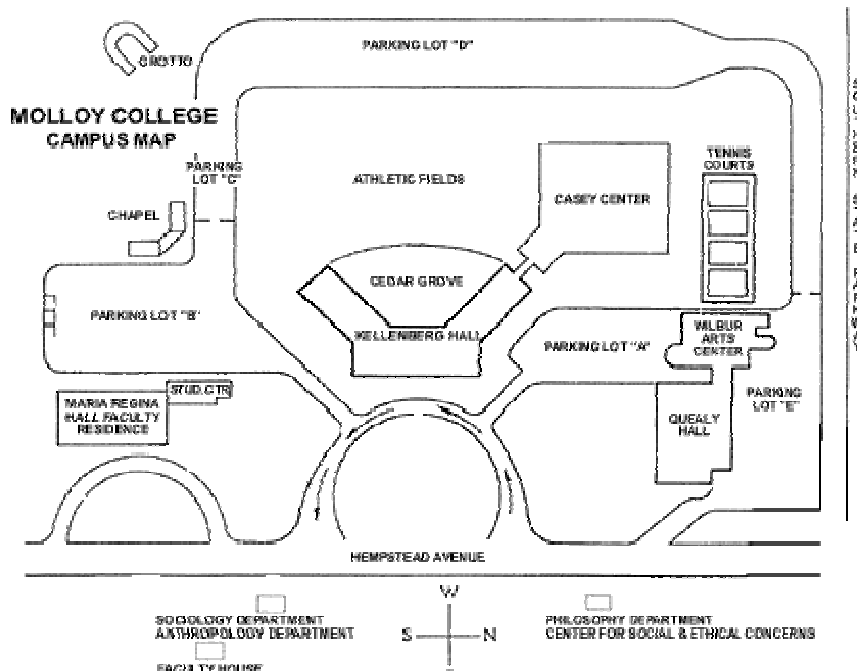
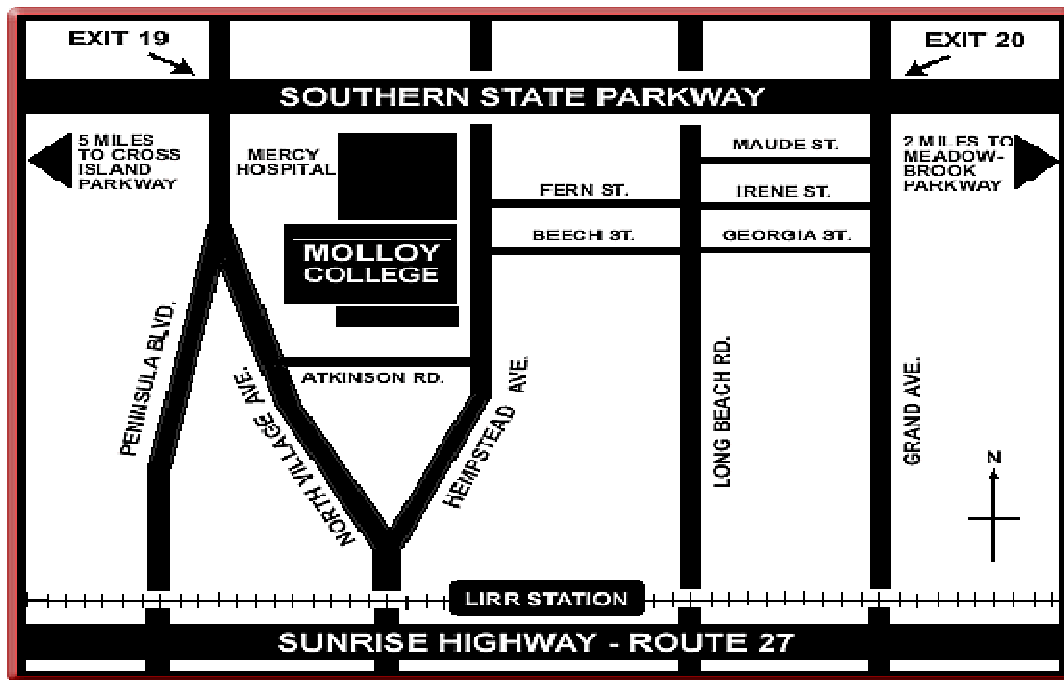
## Traveling By Car

Take the Southern State Parkway (reached via the Cross Island Parkway from the Whitestone and Throgs Neck Bridges, or via the Belt Parkway from the Verrazano Bridge) to Exit 20 southbound. Turn right on Grand Avenue to Georgia Street. Turn right on Georgia and continue approximately 1/2 mile. The street name changes to Beech and ends opposite the campus.



## Traveling By Railroad & Bus

Take the Long Island Railroad Babylon line from Pennsylvania Station in Manhattan, Flatbush Avenue Station in Brooklyn, or other Babylon line stations to the Rockville Centre Station. (Eastbound travelers inquire for possible change at Jamaica Station.) Bus and taxi service is available to and from campus. The N16 line of the Metropolitan Suburban Bus Authority stops at the campus entrance.



## **COLUMN A (SESSIONS I & II)**

1. ***Game On!*** – Games are a wonderful opportunity for children to engage in mathematical discourse while problem solving. The skills that are addressed in the standards - reasoning and thinking, communication and connections – are all addressed through games. The children have fun and at the same time, practice their skills. **Audrey Bellovin**, Garden City Schools, Gr K-1.
2. ***Have You Read Any Math Lately?*** – We will take any primary age book and make a math game to go with it. From book to board and beyond – that is where we will go! **Fran Kohn**, East Rockaway Schools, Gr K-1.
3. ***The Hundreds Chart – Not Just Odd and Even!*** – We all have hundreds charts. Let's dust them off and learn some standards-based lessons in number sense. Let's play! **Dr. Gerardine Johnson and Patricia Cannon**, Farmingdale Schools, Gr K-2.
4. ***Where's the Math?*** – Explore activities to integrate math into content areas of your primary curriculum while addressing the NYS Process and Content Strands. **Joanne Lufrano**, Valley Stream District #30, Gr K-2
5. ***Little Kids Can Solve Problems Too*** – This workshop will explore how several primary concepts – can be taught, reviewed and reinforced using problem solving and manipulatives. Problem packets will be provided. **Lisa Minerva**, East Williston Schools, Gr K-2
6. ***Math Talk*** – If we want our students to understand the math they are doing, we need them to explore, discuss and debate the meaning of math concepts. Let's take a look at some activities and ideas that will engage our students in discussions that will help them become mathematicians! **Mickey Jo Sobierajski**, AMTNYS Past President, Gr K-2.
7. ***DON'T Re-invent the Wheel: What Works for Literacy Intervention Can Work for Numeracy Intervention*** Use the world around you, in every class, add what already works in letters and numbers ... Think, observe, read, write, count, speak... Ideas to make intervention a happy place to be. **Lynn Wilson**, Sadlier, Gr K-2.
8. ***Place Value and Number Sense*** – Through visual representations, manipulative games, and riddles, students can learn to read, write and compare and order numbers to the millions! Basic understanding of numerical values by building numbers increases students' knowledge base and can be used endlessly. **Candice Kaplan**, Seaford Schools, Gr 2-3.
9. ***What is Geometry?*** – A hands-on activities art and geometry workshop designed for teaching 2<sup>nd</sup> and 3<sup>rd</sup> grade students. We will explore the meaning of the word Geometry by cutting, drawing, coloring, and constructing geometric shapes forms and patterns with emphasis on visualizing experiences and involve creating patterns and symmetries. Kits will be supplied. **Norman Shapiro**, Geometry through Art, Gr 2-3
10. ***Want to Play . . . Math Games*** – Reinforce any math concept by teaching your students games. They will have fun while learning! **Michele Anszelowicz**, Wantagh Schools, Gr 2-4
11. ***It's All In Your Mind*** – Do your students listen to your directions? Are you constantly repeating yourself? The activities during this seminar will center on integrating Math and listening skills. The activities will focus on place value, shapes and operations. All the lessons can be implemented into the classroom immediately. **Allan Brimer**, Freeport Schools, Gr 2-4
12. ***Game Talk: The Value of Discourse*** – Games may be fun but if we want students to learn from them, we have to do more than just play! Mathematical learning is not in the fun. It is not even in the play. Mathematical learning takes place in the thinking and discourse about the play. Come to play, think and share. **Mary Altieri**, Putnan/Northern Westchester BOCES, Gr 3-5
13. ***Math Works! Games and Puzzles to Develop Reasoning*** – Participants in this hands-on workshop will use and create games and puzzles to strengthen important concepts in the five content and five process standards, particularly skills in number and reasoning. **John Hinton**, President, Math Matters, Inc. Gr 3-5.
14. ***Differentiating Math Instruction Practically*** – This workshop will focus on utilizing a variety of differentiation strategies to better match instruction to the composition of your class. The strategies discussed

will include Curriculum Compacting, Flexible Grouping, Tiered Assignments and their practical applications in an elementary classroom. **Mary Kolkhorst and Michele Webb**, Syosset Schools, Gr 3-5.

15. ***Engaging Young Mathematical Thinkers with Unusual Counting Problems*** – Participants will work on problems that are challenging and engaging. The problems focus on counting. Some examples: How many ways can we divide a ruler? How many triangles are contained in this figure? How many paths are there from point A to point B? and many more. These problems are a rich source of mathematics for elementary students. **Jim Matthews**, Siena College, Gr 3-5.
16. ***Questioning Techniques for the Classroom*** – Ideas to motivate the math class through different aspects of teacher questions. **Fred Paul**, Retired, New York State Department of Education, Gr 4- 6.
17. ***Pyramath*** – When children play the card game Pyramath, they know they’re having fun, and you know that they’re learning. This is a great tool for doing problem solving, teaching math language, and reinforcing the basic facts. Each participant will leave with a set of Pyramath game cards to use in their classroom. **Abby Radwin**, Malverne Schools, Retired, Gr 4- 6.
18. ***Tangrams! Great Fun and Wonderful Learning Tool*** – Have you met Grandfather Tang? With his help, we will make our own set of Tangram pieces and explore concepts in geometry, measurement, and fractions. We will look at all of the interesting properties and relationships created. **Dr. Sue Smith**, Molloy College, Gr 4-6
19. ***Connecting Fractions, Decimals, Ratios, Proportion, and Percent*** – Several classroom activities will be presented showing teachers how to connect these major middle school concepts to help students develop a deeper understanding. **Ben Lindeman**, Retired, New York State Department of Education, Gr 5-7
20. ***Differentiating Middle School Math: The Equity Principle in Action*** – This workshop shows how to marshal technology to reach the full spectrum of learners, from struggling to academically gifted. Participants will learn how to use the SMART Board to determine learning needs, develop differentiated math lessons using interactive web sites, construct E-cents and stations, build differentiated assessments and use E communications to support and assess learning. Handouts contain recommended Internet sources. **Joanne Fleming**, Mineola Schools, Gr 5-8.
21. ***Making SMART Lessons*** – SMART boards make Mathematics interactive and exciting for all students. This session will cover general SMART board information, lesson activities for grades 5-8 and student constructed SMART board lessons. All lessons will be available for teachers to download. **Caryl Lorandini**, Carle Place Schools, Gr 5-8.
22. ***Tangrams: Experiences in Geometry and Beyond*** – Tangrams, the seven Chinese puzzle blocks, can be used for more than just creating interesting silhouettes. Explore problem solving, area, perimeter, number sense, geometric concepts, and beyond during this hands-on session. **John Maus**, North Shore Schools, Gr 6-8.
23. ***When Are We Ever Going To Use This Math?*** – In addition to content, math has other benefits: instilling values of discipline and excellence, improving memory and focus as well as preparation for success in the “knowledge economy”. The study of math inspires critical thinking while building confidence and persistence for personal and professional development. We will engage in hands-on activities and discuss how math can enhance focus, critical thinking, problem solving and confidence. **Robin Schwartz**, Math Confidence and College of Mount St. Vincent, Gr 6-8.
24. ***Patty Paper Geometry*** – Discover and demonstrate many of the properties and propositions of geometry by tracing on and then folding thin, lightly waxed squares of paper. **Peter Hayes**, Roslyn Schools, Gr 7-8
25. ***Let’s Travel to Far Off Lands to Learn About Geometry!*** – From circles to angles and quadrilaterals, we will journey far into the land of Geometry by focusing on geometric concepts in the Middle School curriculum. Join Sir Cumference and The Littlest Quadrilateral in their goal to spread the wonderful news of angles, symmetry, circles, and more! **Nancy Reich**, Bethpage Schools, Gr 7-8.
26. ***Middle School Spreadsheet Activities*** – The spreadsheet is the most unused tool in the math teacher’s tool box. This session will cover: sliders, random numbers, scientific notation, vampires, functions, the birthday problem, the chaos game, Newton’s square root algorithm and more. **Frank Sobierajski**, AMTNYS, Gr 7-8.

## **COLUMN B (SESSIONS III & IV)**

27. ***ELA and Math*** – During this workshop we will use non-math literature to develop the math skills that research tells us are the foundation for later success in school. **Eileen Simons**, Hofstra University Gr K-1.
28. ***Using Pattern Blocks to Enhance Understanding*** – We will use pattern blocks to help children understand concepts in position and vocabulary, patterns, making shapes from other shapes, symmetry, and adding. **Suzanne Golder**, Malverne Schools. Gr K-2
29. ***Kaleidoscope of Mathematics: Teaching Mathematics Using Ethnic Lenses!*** – This lively interactive session will engage participants in algebraic thinking and number sense experiences that will help them support students in making personal connections to math concepts. **Teresa Joiner and Jennifer Melendez**, Westbury Schools, Gr K-2.
30. ***Planning a Family Math Night*** – A Family Math Night is a great way to get parents and children involved in grade-appropriate math activities that result in learning AND fun. This workshop will include the how-to of planning the event and the set-up of games that teach sorting. Graphing, estimating, addition, subtraction and more! **Mary Ann Mansfield**, Carle Place Schools, retired, Gr K-2.
31. ***Hands on Math Games*** – This workshop will focus on hands-on Math activities that will support the kindergarten through second grade curriculum. Games will be presented that use strategies to build number awareness and logical thinking. **Jennifer McGovern and Michele Ritchie**, Massapequa Schools, Gr K-2.
32. ***Get SMART with US – Effective Use of a SMART board in a K-2 Classroom*** – Learn effective strategies for SMART board implementation in a K-2 lesson. Discover easy to use relevant classroom ready content, as well as whole class participation strategies. **Cyndi Nichols and Mike Mazur**, Commack Schools, Gr K-2.
33. ***Math Works! Games and Puzzles to Develop Reasoning*** – Participants in this hands-on workshop will use and create games and puzzles to strengthen important concepts in the five content and five process standards particularly skills in number and reasoning. **John Hinton**, President, Math Matters, Inc. Gr 1-2.
34. ***S.M.A.R.T. – Stimulating, Motivating, Authentic, Reflective, Teaching Strategies to Build Math Understanding and Appreciation*** – This workshop offers a collection of effective instructional strategies that will enhance the teaching of math content and will support students in their understanding of math. The instructional strategies are aligned with the NYS standards and will provide engaging, motivating ways to teach mathematics. **Miguelina Ortiz**, Baldwin Schools, Grades 1-4.
35. ***Great Elementary Math Activities*** – Bring fun and games into the mathematics curriculum. Excite your students with place value, fractions and geometry games. **Barbara Allaire**, Malverne Schools. Gr 2-4.
36. ***Integrating Math into all Curriculum Areas*** – This workshop will give you materials and ideas to show how to integrate math into all curriculum areas. You'll be able to implement these ideas tomorrow in your own classroom! **Christine Scorzelli-Moir and Patti Korenstein**, Hicksville Schools, Gr 2-5.
37. ***Fractions: How Do I Assess Conceptual Understanding?*** – Now That you've taught your fraction unit, how do you know if your students have mastered the concepts? This session will provide participants with several activities that can be used before, during, and after instruction to help assess students' conceptual understanding of fractions and focus instruction. **Wendy Handshaw Power**, Patchogue Medford Schools, Gr 3-5
38. ***Multi-Cultural Mathematics*** – Learn how to transform your school or classroom into a mathematical wonderland that includes games and activities from around the world. Create pyramids in Egypt, make symmetrical masks in Africa, play Fan Tan in China and explore many other activities from around the world.. **Jamie Piccora**, Patchogue Medford Schools, Gr 3-5.
39. ***Six of One, Half Dozen of Another*** – We will use a variety of manipulatives, visuals and activities to make sense of fractions for students in grades 3-5. **Roberta Silver and Lynda Lyons**, POB Schools. Gr 3-5

40. ***DON'T Re-invent the Wheel: What Works for Literacy Intervention Can Work for Numeracy Intervention*** – Use what already works in writing, social studies and science and make the jump to number concepts ... critical thinking, write your observations, read, write and speak your math ... Some ideas to make intervention a happy place to be. **Lynn Wilson**, Sadlier, Gr 3-6.
41. ***Hands-on Geometry*** – In this workshop we'll use manipulatives and games to enhance the geometry strand of the curriculum. You will leave with new ideas and activities to excite and motivate your students. **Amy Feters**, Roslyn Schools, Gr 4-6.
42. ***Are You Smarter Than A Fifth Grader?*** – These authentic Math Olympiad problems were given to about 40,000 5<sup>th</sup> graders last year. Can you solve them? Why is this important? Attendees will receive another 53 problems (yes, solutions included) to use with your students to help prepare properly for high stakes testing. **Richard Kalman**, Math Olympiads for Elementary and Middle Schools, Gr 4-6
43. ***It Starts with a Cube*** – A cube or a stack of cubes is the starting point for many rich problems involving even more math concepts. Work your way through factors, combinatorics, volume, surface area, networks, and more by solving rich problems. A dozen of these 4-6 minute cube problems provide a fresh approach to these topics. **Dennis Mulhearn**, Math Olympiads for Elementary and Middle Schools, Gr 5-7
44. ***A Potpourri of Activities*** – In this workshop you will be challenged to work on a multitude of mathematical topics that goes along side the NYS Standards. **Randi Albertelli**, Consultant, Gr 5-8
45. ***Making Sense of the Stuff on the Page: Enhancing Literacy in Mathematics*** – Come and explore strategies for vocabulary development and math text comprehension in the middle school math classroom. Build your toolkit with easy-to-implement mini-lesson ideas and graphic organizers! **Michelle Burget and Theresa McGoldrick** Syosset Schools, Gr 6-8.
46. ***Free and Fabulous Web Resources from Texas Instruments*** – Come and be thrilled with all the free support TI offers: tutorials, lesson plans aligned to NY standards, and grant information. All this and more is on TI's robust web site. Door prizes will be given out. **Vincent Doty**, Texas Instruments, Gr 6-8.
47. ***Celebrating the Perfect Square*** – Discover strategies to square any number from 1 to 100 and beyond. Then unearth the patterns and interrelationships that abound. **Eric O'Brien**, Bellmore Schools, Gr 6-8.
48. ***A GCF Strategy that Graduates to Algebra*** – Here is a very simple visual that employs one of our favorite GCF and LCM strategies from number theory and applies it to factoring in algebra. This simple technique will make factoring the GCF from polynomial expressions easy and fun. It then can be carried into full scale factoring of trinomials. Whether it is the visual or the organizing nature of this strategy, it works. Sample lesson will be provided to all participants! **Dr. Peter Garrity**, MathCamp and Columbia University, Gr 7-8.
49. ***Really? Really! Defying your Mathematical Intuition*** – Problems with surprising answers will be discussed. These problems can be integrated into appropriate units in the 7-8 curriculum. **Dr. Robert Gerver**, North Shore Schools, Gr 7-8.
50. ***Having Fun with Probability*** – Examine ways in which you can present the topic of probability with minimal emphasis on formula memorization. Get students excited using real-world applications and graphing calculator simulations. **JoAnn Miltenberg**, Farmingdale Schools, Gr 7-8.
51. ***New Features – SMART notebook Math*** – This interactive session will demonstrate the new features of SMART notebook Math software, and how they can be used to help students make connections in Algebra and Coordinate Geometry. We will explore new tools such as the Advanced Shape Manipulation, Improved Measurement Tools, and Dynamic Graphing all designed to promote student interaction and deepen their understanding. **Matt Ringh**, Tequipment, Inc., Gr 7-8.
52. ***Transformations Can Be Fun*** – Do you know how to use reflections and symmetry for creating poster letters? How can you make your best shot in miniature golf and billiards and pool? **Bruce Waldner**, Syosset Schools, Gr 7-8

