



How To MAKE MATH COUNT

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

Thursday, January 11, 2018

Molloy College

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

Present a K-8 Conference

HOW TO MAKE MATH COUNT

Molloy College

Thursday, January 11, 2018 8:00 A.M. – 2:35 P.M.

We are pleased to announce that NCMTA and NCAMS will sponsor ***The How To Make Math Count K-8*** conference, held at Molloy College, Rockville Centre, NY, on ***Thursday, January 11, 2018***. ***Join us for this special day, designed to meet the curriculum and assessment concerns of elementary and middle school teachers.*** Workshops include teacher-tested ideas, models, demonstrations, techniques, and hands-on activities that can be used in the classroom the very next day. We are fortunate to again have exhibitors so you will have an opportunity to speak with vendors and peruse materials.

This year we are thrilled to have leading Canadian mathematics educator **Dr. Marian Small** delivering the keynote address, entitled "What Should Math Instruction Look Like in 2018?" in addition to being a classroom teacher and professor for over 30 years, Dr. Small was a Dean of Education at the University of New Brunswick. She is actively involved in the development of curriculum and text materials. She has authored over 100 publications including professional resources for teachers.

We are happy to offer online registration and payment. The cost is \$50, (full-time students or student teachers, \$30), which includes a continental breakfast, and lunch. Online payment is available for credit cards, PayPal, or purchase order numbers from your district. To complete online registration, please visit the link at <http://ncmta.net/HowTo2018/htmhc2018.html>. If you would prefer to pay by check, please complete the registration form (at the end of this program) and enclose a check or purchase order made payable to Treasurer, NCAMS. It is not necessary to mail in a physical form if you register online. Registration forms, either online or via mail must be received by **December 19th, 2017**. We expect a large response. Register early so you get your first choices for sessions. You will receive an email confirmation of registration by January 5th, 2018. **If you do not receive a confirmation by January 5, 2018, make sure to contact us at makemathcount@aol.com. Your schedule for the day will be waiting for you at the registration desk in the lobby of Wilbur Arts Center on January 11.**

Participants will be scheduled for the keynote address, three out of four sessions, 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 or registration, call Deborah Upton at 617-851-9770 or email makemathcount@aol.com.

<u>CONFERENCE TIME SCHEDULE</u>			
Registration, Coffee, Commercial Exhibits	8:00	-	9:00
Keynote Address	9:10	-	10:10
Session 1	10:25	-	11:20
Session 2 or Lunch and Commercial Exhibits	11:30	-	12:25
Session 3 or Lunch and Commercial Exhibits	12:35	-	1:30
Session 4	1:40	-	2:35

*How to Make Math Count
Planning Committee*

COLUMN A (SESSIONS I & II)

1. ***Place Value and the ENL Student*** – Looking to engage and motivate your English Language learners? Then attend this workshop! Presenters will offer multiple suggestions and tools that may be used to assist all of the learners in your class. **Christina Moser**, North Merrick Schools, and **Jennifer Anderson**, Island Trees Schools, Gr K-1.
2. ***Wake Up Excited to Teach Tomorrow's Lesson*** – Come play some games, learn some songs and sneak some math skills into different parts of your day! Activities you can use right away in your classroom. Let's show our students how much fun math can be! **Donna Casano**, East Williston Schools, Gr K-2.
3. ***Moving Through Math Stations – A Make and Take Workshop*** – Let's get your students excited about math! Come join us for a fun and engaging workshop. Teachers will rotate from station to station, creating games and activities. **Joanne Cicio and Christine Lofaro**, Huntington Schools, Gr K-2.
4. ***Math Applications and Websites: Share and Compare*** – Bring your own device and share your favorite (preferably free!) apps or websites. This will be a round-robin share and compare. **Laura Forsyth**, Malverne Schools, Gr K-2.
5. ***Making the Most of Your Math Lesson*** – Are you looking for ways to supplement your mathematics curriculum? Come create hands-on, engaging activities that can be immediately implemented to enhance any math lesson! **Alyssa Moirano**, East Williston Schools, **and Stacey Vespe**, Wantagh Schools, Gr K-2.
6. ***Kinesthetic Strategies to Improve Math Outcomes*** – This interactive presentation offers kinesthetic strategies that support the modules, build number sense and critical thinking, and increase a student's fluency and ability to focus and understand. All participants will receive the Math and Movement Training Manual e-book and six digital skip counting banners. **Suzy Koontz**, Math and Movement, Gr K-5.
7. ***Guided Math – An Instructional Practice*** – Participants will be introduced to guided math – a strategy that can be used to differentiate math instruction, while also engaging students in activities that help improve number sense, computational fluency, problem solving and reasoning. **John Towers and Nicole Corron**, Levittown Schools, Gr K-5.
8. ***Ideas for Math Class on Twitter: Sharing, Exchanging or Lurking*** – Twitter is a great place for Math educators to find tasks, routines and camaraderie. In this workshop, we will visit the Math Twitter BlogOSphere (#mtbos), #elemmathchat, #observeme, #iteachmath, #swdmathchat for inspiration and motivation for both teachers and students. We will also post live Tweets during the session! **Robin Schwartz**, College of Mount Saint Vincent, Twitter @mathconfidence, Gr K-8.
9. ***Promoting Number Sense Through Number Talks*** – Looking for a way to build computational fluency in your students? Come to this number talk workshop and learn how to incorporate this strategy into your everyday lessons. **Denise Simone**, Nassau Boces, Gr 2-5.
10. ***Differentiating Fractions Instruction with Games*** – Participants will learn how to help struggling students, specifically ELLs and SWDs by using hands on games and activities to supplement direct instruction. **Dara Koza**, NYC DOE, Gr 3-4.
11. ***STEAM Up Your Math Rotations*** – Are you looking to create engaging activities that promote deep thinking, growing a growth mindset, and patient problem solving? Here you will find STEAM station ideas and strategies that will ignite a passion for knowledge in even your most reluctant learner. **Shari Bowes** and **Jessica Ryan**, Lynbrook Schools, Gr. 3-5.

12. ***Math as a Language for Elementary Scientists*** – A presentation highlighting math as a tool to communicate ideas and understanding in science as well as inspiring different perspectives of our natural world. **Henry Kupstas**, East Williston Schools, Gr 3-5.
13. ***Modeling with Computer Simulations to Make Thinking Visible in Addition with Regrouping, Fraction Multiplication and Partial Products.*** – We will model blended learning in diverse learning environments – (base 10 blocks, paper, computer) discuss pedagogy, suggest appropriate 3-part lessons to encourage “grappling” and “see” solutions. Participants will receive free access to a computer approach and to 3 part lesson plans for their classes. **Rudy Neufeld**, UMathX, **Simone Foo**, NYC Schools, Gr 3-5.
14. ***Roll Out The Solar System*** – Here is a great STEAM activity combining science, technology, art and mathematics. Using Play-Doh and toilet paper (yes, toilet paper) participants will create a scale model of the solar system and compare the size and distance of the planets from each other. **Joan Soldano**, Stardust Educational Consulting, Inc, Gr 3-5.
15. ***Manipulative Magic*** – Learn how to utilize everyday objects and items found at the Dollar Store to help students form mathematical understanding. **Diane Viola**, East Williston Schools, Gr 3-5.
16. ***The Problem with Problem Solving*** – Why is it SO HARD for students to solve problems involving words? Is there a difference between routine-and non-routine problems? I look forward to sharing with you what my students have taught me about problem solving! **Mary Altieri**, PNW Boces, Gr 3-6.
17. ***The Amazing Math Race and Other Amazing Ways to Review Math Topics*** – Get ready to move around and make math review fun! We will highlight great activities that will get your kids motivated, moving and talking about math. These activities can be planned for any math topic. **Maria Castle**, North Merrick Schools, Gr 4-6.
18. ***Interesting Problems to Encourage Math Thinking in Grades 4-6*** – Participants will be provided with a variety of accessible, but interesting, problems for students to solve. Some problems are contextual; some are not. But all of them focus children on thinking mathematically and often seeing the bigger picture. **Dr. Marian Small**, Keynote Speaker, Gr 4-6.
19. ***With a Growth Mindset, Everyone Can Succeed in Math*** – In this workshop we will explore strategies to help our struggling students who believe they just aren’t “good” at math. The concept of a “growth mindset” comes from the work of Carol Dweck. Students with a fixed mindset are those who are more likely to give up easily, whereas students with a growth mindset are those who persevere even when work becomes challenging. **Kim Welsch**, Levittown Schools, Gr 4-6.
20. ***Fractions – Decimals – Percents; Ideas for Increasing Student Understanding and Interest*** – In this session, we will share ideas and supporting classroom activities that will improve student conceptual understanding and computational fluency with (numbers that are usually described as) fractions, decimals and percents. The activities are great for students who are struggling and also with students who need challenges. **Jim Matthews**, Siena College, Gr 5-7.
21. ***Excite and Energize Your Teaching of Area in the Middle School by Using Great Problems*** – An effective tool to teach area in the elementary grades can be found in math contests. Investigate and reinforce area concepts by solving non-routine problems that allow for multiple solutions. The teaching of problem solving will be modeled as you contribute solutions. Leave with these and over 25 additional problems. **Dennis Mulhearn**, Retired, Valley Stream Schools, MOEMS, Gr 6-8.
22. ***Algebra Tiles*** – Algebra tiles are a way to help bring the abstract ideas of integer operations, expanding, factoring and solving linear equations to a concrete concept your students can understand. This workshop will introduce teachers in grades 6 through Algebra how to use both physical as well as digital algebra tiles with their students. **Robert Teseo**, East Williston Schools, Gr 6-8.

23. **How To Take Better Notes in Math Class** – Seven levels of note taking will combine with 36 technical strategies to give teachers and students a guide that will help students improve their math skills and their communication skills. Perfect to meet CCSS initiatives. Field-tested over 30 years. **Robert Gerver**, Retired, North Shore Schools, Gr 6-8.
24. **Ideas for Enriching the Middle School Math Class** – Discover activities that can promote student and teacher interchange. **Fred Paul**, SED, Retired, Gr 6-8.
25. **When Are We Ever Gonna Use This Math?** – Math broadens career choice and helps students embrace reasoning and problem-solving skills while building confidence and persistence. Students benefit from the challenge and discipline of Math including attending to precision and strengthening logic and persistence – assets in middle and high school, college and the workplace. This perspective can help parents and teachers lead their children and students through the process of learning and enjoying math. **Robin Schwartz**, College of Mount Saint Vincent, Gr 6-8.
26. **Teach Math with Cartoons** – Cartoons often have high cognitive demand, which can increase student engagement. We will discuss two different types of cartoons and try some cartoon problems. We will also discuss research that deals with cartoons in class. **Hoyun Cho**, Capital University, Gr 6-8.

COLUMN B (SESSIONS III & IV)

27. **It All Adds Up To Fun!** – This workshop will focus on activities that will engage students in thinking about addition and subtraction while playing games. Children need to gain fluency with their facts in order to become better problem solvers. **Audrey Bellovin**, Garden City Schools, Gr K-2.
28. **How to Use the Rekenrek in the K-2 Classroom** – See why students love the rekenrek. Participants will learn effective strategies to teach addition and subtraction using the rekenrek. All participants will practice using a rekenrek during the workshop. **Sue Mehr**, Deer Park Schools, Gr K-2.
29. **Shape Up with Geometry** – Look at the part-whole relationship through a geometric lens. Learn to use precise language to teach defining and non-defining attributes of two and three-dimensional shapes and to build vocabulary. Create and identify geometric shapes using various manipulatives, including straws, spaghetti, toothpicks, geoboards and tangrams. Combine shapes to create composite shapes. Kid-friendly math literature that supports these concepts will be shared. Geometry basics aid in the teaching of time (clocks) and equal parts (fractions). **Millie Joyce**, Garden City Schools, Gr K-2.
30. **Fun with Ten-Frames** – This workshop will provide K-2 teachers with fun activities using ten-frames. It targets fluency skills and supports the common core standards in Mathematics. **Theresa Taplin**, West Babylon Schools **and Terriann Eidt**, Long Beach Schools, Gr K-2.
31. **Developing the Numerical Fluency and Mathematical Reasoning of Young Mathematicians** – In this session we will focus on engaging number activities that develop “Mental Math” problem solving, mathematical structure, and mathematics reasoning. We will discuss ways the activities can be differentiated so students at all grade levels and all levels of mathematical development can participate. **Jim Matthews**, Siena College, Gr K-3.
32. **The Word Problem** – Learn new ideas regarding the approach to solving word problems in mathematics. **Larry Farrell**, WS Boces, Gr K-5.
33. **Improving Math Fluency Using Sprints** – This workshop will introduce the use of Math Sprints into one's daily/weekly instructional practices in order to improve fluency skills in mathematics, as defined by the CCLS Mathematics Shifts. **John Towers**, Levittown Schools, Gr K-8.

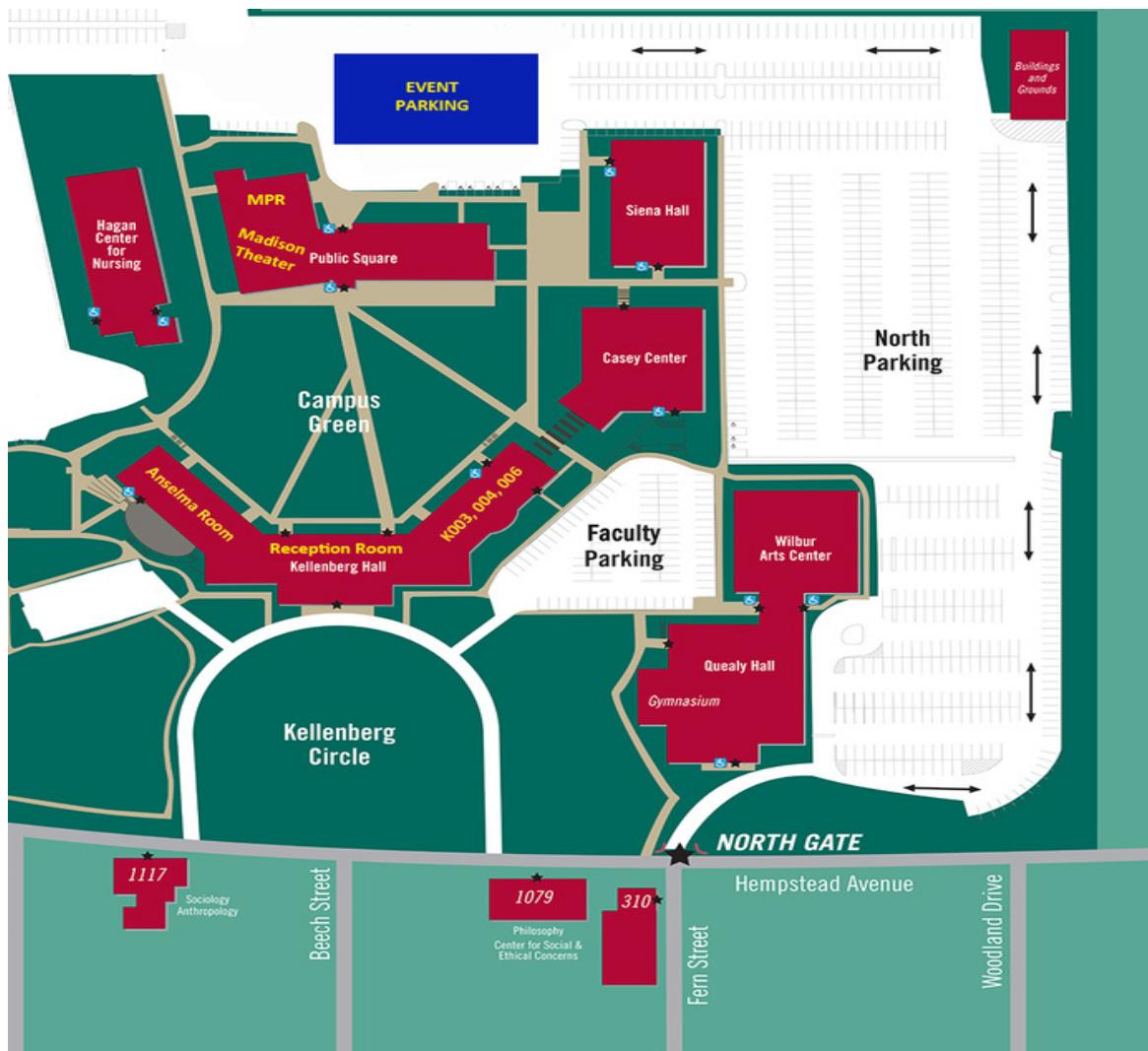
34. ***Math Magic and More!*** – Are you looking for ways to make math fun for students? In this workshop you will play a variety of games. These games can be used to supplement or differentiate instruction, as well as be put into math centers. You will leave with a packet of materials to use in your classroom. **Laura Marks**, Island Trees Schools, Gr 2-4.
35. ***Let's Make Math Fun!*** – In this workshop, a variety of ideas will be presented on how to make math fun in the classroom. Games using cards, dice and other manipulatives will be explored as well as activities that can be done in the classroom. **Michelle Saccone**, and **Anne Wachowicz**, Notre Dame School, Gr 2-4.
36. ***Improving Calculation Skills with Xtra Math*** – Help your students improve math fact memorization and master the four basic operations with just 4-5 minutes a day, a few times a week. This workshop is an introduction to this free online program, Xtramath.com. This activity is excellent for teaching, remediating, gaining automaticity, and keeping math skills sharp. Workshop participants will learn to quickly create and manage classes and groups, customize programs, and use the program as an independent math center. Participants will receive data tracking sheets for school use, progress reporting for parents, customized motivational certificates for students and more. **Gloria Kreutzberg**, Levittown Schools, Gr 2-6.
37. ***Full STEAM Ahead! Making Connections Across Curriculum Areas*** – Hop aboard and join us as we explore STEAM activities that emphasize math skills and concepts across curriculum areas. We will focus on how teachers can use the design process in their curriculum in order to engage students and provide hands-on experiences. We will incorporate strategies to differentiate in order to reach all students and allow them to think like engineers. **Mary Goldberg, Anne Hackford, and Janice Hyland**, Floral Park-Bellerose Schools, Gr 3-5.
38. ***Tips, Tricks, and Games*** – Lets put some fun back into Math! Cards and dice will be used to play a few games to practice skills. Even a little MAGIC will add to the fun! **Grace Quinlan**, Past President, NCMTA, Gr 3-5.
39. ***Making Math Count by Differentiating Your Elementary Instruction*** – We will be sharing effective ways to differentiate daily math lessons using small group instruction. Teachers will walk away with practical strategies and activities they can incorporate immediately in their classroom routines. **Siobhan Schneider and Melissa Boos**, Levittown Schools, Gr 3-5.
40. ***Enhancing Mathematics Instruction through the SMART board and other Tools*** – This workshop will focus on tricks, websites, apps, SMARTboard tools, and more. Elementary teachers will leave the workshop with ways to enhance their lessons and instruction. Bring a trick or a website that you enjoy to share with others! **Paul Speranza**, Levittown Schools, Gr 3-5.
41. ***Perfect Practice with PyraMath*** – Would you like a game that can be used in your class for painless practice of the basic arithmetic facts while encouraging your students to develop winning strategies and strengthen their math vocabulary? Warm up with some puzzles and then challenge your neighbor to play the card game PyraMath. Each participant will receive a set of PyraMath cards to take back to school. PyraMath can be used as a class activity, a small group activity, or even in its solitaire form. **Dennis Mulhearn**, Retired, Valley Stream Schools, MOEMS, Gr 4-6.
42. ***It Takes a Village . . . How Educators at All Levels Contribute to a Student's Development*** – Using specific common core examples from the Math in Focus and Go Math New York City curricula we will show how the concepts taught are preparation for high level mathematics or science concepts. Understanding where these concepts are used can lead to more creative ways to present these lessons. We invite participants to bring their own common core lessons for us to use as a center for group discussion. **Nicole Simon and Theresa Vecchiarelli**, Nassau Community College, Gr 4-6.

43. **Parabolic Curves + Art = STEAM** – What is a parabola? A parabola is a curve where any point is at an equal distance from a fixed point and a fixed straight line. Combining graphing with art, participants will create curved illusions and beautiful pieces of artwork, allowing them to incorporate this STEAM lesson into their math curriculum. **Joan Soldano**, Stardust Educational Consulting, Inc, Gr 4-6.
44. **More than a Worksheet** – Participate in numerous engaging math activities that you can immediately use in your classroom. We will play and learn with dice, cards, play-dough, spinners, and much more. Activities will take into consideration NYS **Math** Standards, differentiation, and various student learning styles. **Kathleen Coners** and **Grace Parisi**, Long Beach Schools, Gr 5-7.
45. **STEM Solutions for the Classroom** – Using the TI Graphing Calculators in your schools, we will learn basic coding to show students the path towards a career in STEM. Attendees will receive the software to teach within their classrooms. **Dana Morse**, Texas Instruments, Gr 5-8.
46. **Problems: Exciting, Energizing and Enriching!** – Generate excitement among your students by modeling how to take risks in mathematical problem solving. Energize and enrich your curriculum by encouraging your students to dialogue with each other and reminding them that a REAL problem is not the same as a practice exercise. Through the use of problems with multiple solution paths, teachers will learn techniques that will help their students reduce the need to “cram” for assessments. **Nicholas Restivo**, MOEMS, Gr 5-8.
47. **Activities for Middle School Math** – Wouldn’t you like your students to be more interested in the math you are teaching? Come to this hands-on workshop and be the students. You will work through activities that will enable the students to acquire the math they need to learn while having fun and being completely engaged. We will talk about adapting the activities to make them accessible for all students. Bring your scientific calculator. If you have access to a graphing calculator bring it also. We will incorporate them. Don’t worry if the students do not have the graphing calculator, you can use the free emulator in your classroom to demonstrate what you need them to see. If you have an android phone, you can download the free app as we work. **Mindy LiBiassi**, Western Suffolk Boces, Gr 6-8.
48. **Modeling with Computer Simulations to Make Thinking Visible in Working with Linear Relations and Slope** – We will model blended learning in diverse learning environments (computer and paper), discuss pedagogy, choose appropriate 3 part lessons which excite in “grappling” problems and “see” solutions. Participants will receive free access to a computer approach and to 3 part lesson plans for their classes. **Rudy Neufeld**, UMathX, **Simone Foo**, NYC Schools, Gr 6-8.
49. **Using Problem Solving and Technology Tools to Promote Student Engagement and Mathematics Learning** – In this session I will share problems appropriate for middle grades mathematics students and we will examine how incorporating technology tools can lead to greater student participation and learning. We will connect this work to applications that will run on the smart phones many of your students have with them on a regular basis, making their devices tools to support their mathematical thinking. **Jacob Klerlein, Ph.D.**, Educational Director, generationready.com, Gr 6-8.
50. **Creative Activities for the Middle School Classroom** – Learn creative ways to get your students involved and engaged. **Heather Yandoli**, Massapequa Schools, Gr 6-8.

* * * * * Directions * * * * *

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) to Exit 20 southbound. Go south 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.

By Bus or Train: 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.



REGISTRATION FORM
(Use this form ONLY if you do not register online)

Participant's Name _____ Check # _____
Last Name _____ First Name _____

Home Address _____

Home or Cell Phone (_____) _____ (Please complete in case of snow emergency)

Email address _____

School Name _____

District _____ Grade Level _____

Please choose **eight** workshops, **4 from each column**, in order of preference. Use the numbers next to the description. **Workshops will be assigned in the order in which we receive your registration. Every effort will be made to honor your preferences. Since most workshops are scheduled for only one time slot, you must choose 8.**

Column A (Session I & II)

First Choice # _____
Second Choice # _____
Third Choice # _____
Fourth Choice # _____

Column B (Session III & IV)

First Choice # _____
Second Choice # _____
Third Choice # _____
Fourth Choice # _____

Send this form and a check or purchase order for **\$50.00**, (full time students or student teachers **\$30.00**) which includes continental breakfast and lunch, made out to **Treasurer, NCAMS**. by **December 19, 2017** to:

Susan Greenberg
18 Briggs Road
Plainview, NY 11803

makemathcount@aol.com

We look forward to your early response!

***NO ON-SITE REGISTRATION
A CONFIRMATION WILL BE SENT VIA E-MAIL
by January 5, 2018.***

