

Spring 2015

affiliated with NCTM/PCTM

President's Message

LHMA Constitution Undergoes "Spring Housecleaning"

Dear Members:

In previous issues of *The Meter* I have used this little corner to share my various ponderings on topics of interest in mathematics education. This message, however, is of the practical variety. As our organization has gained momentum in the past few years, it has been, at times, necessary to consult our LHMA Constitution. The constitution we have been working with is the original, written to the best of our knowledge in the early 1990s. The Executive Board decided that, to be a helpful and relevant document, it was in need of some "freshening up." They tasked an ad-hoc committee, consisting of myself, past-president Dr. Nina Girard and Secondary Representative Ken Balough to lead the initial efforts in revision. The Executive Board then performed a thorough review of the first draft of revisions and provided additional suggestions at its September meeting. It is now time for the membership to consider and comment on the proposed changes, which can be seen at our new website <https://lhma.wikispaces.com/Home>. An accompanying *Constitution Page* containing a discussion board has been created on the wiki for the purpose of collecting public comment through Friday March 6, 2015. A vote for the proposed amendments to the LHMA Constitution will be called for at the Annual Business Meeting in conjunction with our 3rd Annual Mathematics Educator Mini-Conference on Saturday March 21, 2015 (see pages 3 and 9 for program and registration). Please see the article *The LHMA Wiki* on page 5 for an introduction to our new wiki and instructions for public comment.

You will find that many proposed changes are minor, but necessary and significant. For example, in today's world of Survey Monkey and Google Docs it is no longer necessary or even practical to hold elections by *written* ballot. We importantly updated wording to be gender inclusive. Other proposed changes reflect today's educational landscape. In the past the Executive Board has consisted of elementary, secondary and college representatives. The revisions call for a representative from early childhood, middle level, secondary, special education, and higher education. We feel that these designations will allow us to have all of the equally important voices of mathematics education team members at the table. We have additionally proposed including a student-representative (pre-service teacher) on the Executive Board. It is in our best interest, we believe, to invest in the leadership development of next-generation mathematics teachers! With the exception of the student-representative, the proposed changes call for 3-year terms for representatives. The previously called for terms of just one year have proven logistically impractical.

I would like to thank the membership in advance for your active participation in this important process—one that will allow us to grow in vitality.

Mathematically yours,
Kate

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PCTM/NCTM Report

Nina Girard, University of Pittsburgh at Johnstown

By Nina Girard, NCTM/PCTM Representative

PCTM has launched a new website at www.pctm.org. Check it out! Here you can find information on upcoming workshops and professional development opportunities. And a 'members only' section will be up and running soon that will provide materials from various workshops for download.

PCTM is moving their Annual Conference to the summer. The first summer Annual Conference will be held August 13-15, 2015 at the Lancaster Host Resort & Conference Center in Lancaster, PA. No more need to write plans for a substitute for a missed day with your students! Start planning now to do an inservice trade day(s) for 2015 with your school district. Thursday will be family day and members are encouraged to bring families to enjoy the nearby Dutch Wonderland Amusement Park, as well as the many other attractions in the Lancaster area.

Did you know that NCTM has a membership referral program? This is opportunity for you to refer colleagues and friends for NCTM membership—and, in return, receive [great gifts and prizes](#). Your very first referral (and every one thereafter) enters your name in a prize drawing for a free trip to NCTM's 2016 annual meeting in San Francisco or an Apple iPad. With your second referral, you'll receive \$5 in NCTM bucks to spend on resources, conferences, or membership renewal from NCTM. Accumulate more bucks with every two referrals, plus receive *additional* gifts (like VISA gift cards) for reaching 10, 15, and 20 new members and being our top recruiter. It only takes a few moments to participate and the rewards add up quickly. This year's program runs through June 30, 2015. See the following website for more details: <http://www.nctm.org/membership/content.aspx?id=8948>

SAVE THE DATE

March 21, 2015

LHMA 3rd Annual Mathematics Educators Mini-Conference

University of Pittsburgh at Johnstown

April 10-11, 2015

MAA Allegheny Mountain Section Meeting

Washington & Jefferson College
Washington, PA

August 6, 2015

LHMA 2nd Annual Summer Dessert Social & Book Discussion

St. Francis University, Loretto, PA

August 13-15, 2015

PCTM Annual Conference

Lancaster, PA

Call for Nominations for LHMA Office Positions

LHMA is searching for individuals who would like to become more actively involved with our organization and hold an officer position. Nominations are now being accepted for the following officer positions: President-Elect and Treasurer. If you or someone you know are interested in these positions, send your name and nomination(s) to Nina Girard (nina@pitt.edu) no later than February 28th. The Nominations Committee will then put together a slate of candidates and elections will take place electronically in early March.

Sincerely,

LHMA Nominations Committee
Nina R. Girard, Past President
Sherri Ritenour, Historian

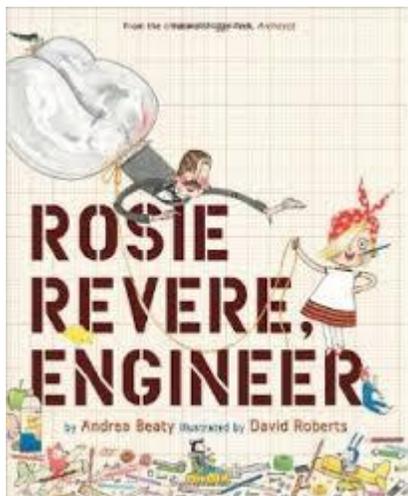
3rd Annual Mathematics Educator Mini-Conference

The Laurel Highlands Mathematics Alliance is pleased to announce its third annual Mathematics Educator Mini-Conference to be held on Saturday, March 21, 2015 from 9:00 A.M. to 12:30 at University of Pittsburgh at Johnstown. The day will begin with a choice of four concurrent sessions for elementary, middle, secondary, and special education and will conclude with a brunch and a keynote address. Please see the registration form on page 9.

8:30-9:00	REGISTRATION : Biddle Hall Lobby
9:00-10:15	CONCURRENT SESSIONS: Biddle Hall
Session A (early childhood)	<p><u>Using Augmented Reality to Teach Subitizing</u> by Ms. Megan Stotz and Dr. Lynn Columba, Lehigh University</p> <p>Through the use of augmented reality to explore real world numeracy concepts, preschoolers indicated positive subitizing gains. Implementing physical game pieces along with virtual ones in a game board format, <i>Creative Counting</i>, indicates that augmented reality technology has the possibility to enhance student engagement and innate curiosity. The overlays, through which the preschoolers were able to manipulate three-dimensional virtual models, revealed missing creature eyeballs in various subitizing spatial arrangements.</p>
Session B (middle level, learning support, special education)	<p><u>"I do <i>What</i> to the Bottom Number?": Teaching Fractions to Middle School Students with Disabilities</u> by Dr. Elizabeth Hughes, Duquesne University</p> <p>The importance of mastering fractions is widely recognized, but operations involving fractions pose challenges for many students. This session will (a) identify some challenges students experience when learning fractions (e.g., applying properties of rational numbers to fractions) and (b) share evidence-based instructional practices for students with disabilities. Participants will interact as they learn about how to implement interventions such as concrete-representational-abstract sequence and video modeling to teach fractions to middle school students with disabilities.</p>
Session C (secondary)	<p><u>Creatively Integrate CCSS, Questioning Techniques, Interactive Technologies, and Mathematically-Rich Engaging Problems</u> by Mr. Tom Reardon, Youngstown State University</p> <p>Incorporate CCSS Mathematical Practices into your students' learning with these rich activities that can be used at various grade levels. Questioning techniques that create more engaging discussions will be illustrated. Get hands-on experience with graphing calculators and also see with an iPad app. Walk away with all the activities demonstrated.</p>
Session D (middle and secondary)	<p><u>Formative Assessment Lessons from MDC/MAP: What's the Buzz?</u> by Mr. Aaron Hileman, Spring Cove; Mr. Brian Reynolds, Central Cambria; Ms. Monica Tremba, Forest Hills; and Ms. Kristin Wilson, Hollidaysburg.</p> <p>Local teachers will share their experiences and lead a roundtable discussion on the successes and challenges of using formative assessment lessons from the Mathematics Design Collaborative (MDC)/Mathematics Assessment Project (MAP). The roundtable is open to both teachers wishing to learn more about the formative lesson and those already implementing them.</p>
10:30-11:30	Brunch and LHMA Annual Business Meeting: Student Union, Cambria Room Enjoy brunch and conversation with your colleagues in the region!
11:30-12:30	<p>Keynote Session: My Favorite Problem-Solving Activities for Elementary, Middle, and High School Mathematics Classes with Thanks to George Polya, by Mr. Tom Reardon</p> <div style="display: flex; align-items: flex-start;">  <div> <p>Tom Reardon taught mathematics for 35 years at Fitch High School (Ohio) and he is in his 34th year of teaching at Youngstown State University. He enjoys integrating appropriate technology into his lessons when possible. Tom is a frequent presenter at NCTM and T3 national and regional conferences and at state math conferences. He has done professional development in 39 states and 8 countries. Tom has received several awards including the Presidential Award and he is Nationally Board Certified. He has been married to his wife, Paula, for 39 years. They have 3 children and 3 grandchildren.</p> </div> </div>

Book Corner

Kate Remillard, St. Francis University



One of the very best perks of being a parent is having both the opportunity and good excuse to read (and re-read!) children's literature. Honestly, I didn't know what an amazing world of books I was missing until my first was born 7 years ago! Here, I would like to introduce to all of you my hands-down, all-time favorite new read from 2014. And the winner is . . . drum roll please . . . [Rosie Revere Engineer](#) written by Andrea Beaty and illustrated by David Roberts!

This book is the answer to the prayers of parents who find themselves pushing back against an ever-pervasive princess culture (Insert me). It is also an answer to the prayers of math teachers of all levels, looking for a mascot for their classroom (Insert me. You can see why I like it, already!). The heroine, Rosie, is a 2nd grader who dreams of being a great engineer. As a very young child, she is a prolific builder and creative inventor. A few brushes with failure and hurtful comments from less than encouraging adults in her life, however, lead Rosie to keep her dream all to herself.

Rosie is almost dealt yet another crushing blow when she builds a heli-o-cheese-copter and it crashes to the ground after the briefest of flights in the sky. Unbeknownst to Rosie, her great-great-aunt Rose (a nod to Rosie the Riveter) is looking on and this is what she says: *"You did it! Hooray! It's the perfect first try! This great flop is over. It's time for the next!"* . . . *"Your brilliant first flop was a raging success! Come on, let's get busy and on to the next!"*

Hallelujah! If we could all have the wisdom to look at our own mistakes and those of our students as *brilliant first tries*, as valuable steps to our end goal! Imagine the possibilities! Is it mere coincidence that Rosie Revere Engineer rhymes with *persevere*? As we strive to teach students the [Standard for Mathematical Practice #1: Make sense of problems and persevere in solving them](#), may we look to Rosie as a role model.

You must find a copy of this delightful book for yourself and your classroom! You have my promise that you won't be disappointed! Equally entertaining is its companion book [Iggy Peck, Architect](#). My kids especially like the opening page where Rosie's classmate Iggy, at just two, *"builds a great tower—in only an hour—with nothing but diapers and glue."* And yes, the diapers are the opposite of clean.

Have you read a book that fellow math teachers would appreciate? Please send a review for inclusion in the Fall 2015 newsletter by mid-August to victoriaczarnek@gmail.com.

The 2015 Try-Math-A-Lot problem solving tournament has been cancelled.

The University of Pittsburgh's new policies relating to protecting children from abuse require all faculty, staff and volunteers to have the appropriate clearances on file. We will not be able to be in compliance to offer TMAL this year.

The *Laurel Highlands Mathematics Alliance*, and the Pitt-Johnstown faculty, staff and students look forward to the Try-Math-A-Lot every year. However, University policy and concern for the safety of your students has made this decision necessary. LHMA will examine options this year as we hope to be able to continue to offer the tournament in the future.

The LHMA Wiki

Becky Piscitella, Richland

Welcome to the new LHMA wikispace at <https://lhma.wikispaces.com/>. The wiki was created to give us an independent location to share information, important documents, past issues of the *METER*, and create a forum for online discussion with LHMA members. It is a public wiki that only certain executive board members can edit, however, any of our LHMA wikispace account holders can participate in the open discussion boards when logged into wikispaces.com.

To create a free education wikispace account, go to <http://www.wikispaces.com/>, click "Education", then click, "Create a free classroom now." Once you have created a free classroom account and log in to wikispaces, you will be able to post to the wiki discussion board. You can explore wikispaces as a classroom tool or never look at it again, however, you must be logged in to wikispaces to post a comment.

If you choose to try wikispaces, here are a few examples of how I use it. One account can allow you to create multiple wikis:

My Classroom Wiki: <http://mrsbeckypiscitella.wikispaces.com/>

My Professional Curriculum Vitae (Resume) Wiki: <http://mrsbeckypiscitella.wikispaces.com/>

My tutorial for transferring documents between iPads and PCs: <http://beckypiscitellapc ipad.wikispaces.com/>

Below is the guide to our LHMA Wiki:

Home Conferences Constitution Events Math Share The Meter	<p>The Conference page lists conference information and registration forms.</p> <p>The Constitution page contains proposed updates and a discussion board for comments.</p> <p>The Events page highlights upcoming events- we could use some suggestions here.</p> <p>The Math Share page includes 3 discussion boxes to post <i>Event Ideas</i>, <i>Wikispace Suggestions</i>, and <i>Favorites</i> like math apps, sites, technology, etc.</p> <p>The Meter page includes current and past issues of The Meter.</p>
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Please be sure to read the proposed updates to the LHMA Constitution on the Constitution page. It will be open for public comment until Friday March 6th on the Math Share discussion board. Remember, you must have a wikispaces account (free to educators), AND be logged in to leave a comment.

LHMA Membership

The LHMA membership year runs from September to August. We provide the opportunity to renew membership for the next year on the registration forms for the Spring Mini Conference. You may also print an application from the LHMA website (<https://lhma.wikispaces.com/Home>) and mail it to:

Jackie Baird
University of Pittsburgh - Johnstown
450 Schoolhouse Road
141 Krebs Hall
Johnstown, PA 15904

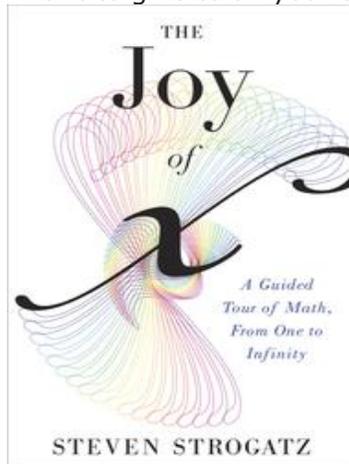
LHMA 2015 Summer Dessert Social and Book Discussion

The Laurel Highlands Mathematics Alliance with support from the [Saint Francis University Science Outreach Center](#) will host its 2nd Annual Summer Dessert Social and Book Discussion on Thursday August 6, 2015 from 7-9pm at the John F. Kennedy Student Center on the campus of Saint Francis University, Loretto, PA ([campus map and directions](#)). The 2015 book selection is *The Joy of x* (2012) by Steven Strogatz. The evening will begin with small-group book discussion followed by dessert and conversation. Participants are responsible for obtaining a copy of the book ([amazon.com](#), [half.com](#), [barnesandnoble.com](#).) There will be a \$5 charge to cover the Dessert Bar and beverages. Payment and Registration Form (see page 10) must be postmarked by Monday July 27, 2015. Come join the fun!

Synopsis

In 2010, award-winning professor Steven Strogatz wrote a series for the *New York Times* online called "The Elements of Math." It was hugely popular: Each piece climbed the most emailed list and elicited hundreds of comments. Readers begged for more, and Strogatz has now delivered. In this fun, fast-paced book, he offers us all a second chance at math.

Each short chapter of *The Joy of x* provides an "Aha!" moment, starting with why numbers are helpful, and moving on to such topics as shapes, calculus, fat tails, and infinity. Strogatz explains the ideas of math gently and clearly, with wit, insight, and brilliant illustrations. Assuming no knowledge, only curiosity, he shows how math connects to literature, philosophy, law, medicine, art, business, even pop culture and current events. For example, did O.J. do it? How should you flip your mattress to get the maximum wear out of it? How does Google search the Internet? How many people should you date before settling down? Strogatz is the math teacher you wish you'd had, and *The Joy of x* is the book you'll want to give to all your smart and curious friends.



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Website Allows for Multiplication Practice and Helping the Hungry! A Win-Win!

Freerice is a non-profit website that is owned by and supports the United Nations World Food Programme. Freerice has two goals:

1. Provide education to everyone for free.
2. Help end world hunger by providing rice to hungry people for free.

The goals are made possible by the generosity of sponsors who advertise on the website. Visit [freerice.com](#) and start clicking correct answers to multiplication or basic math facts right away. For each answer you get right, they donate 10 grains of rice to the United Nations World Food Program! As you play, rice gets added to a bowl on your screen. This is a great website to share with your students and their families. Have fun!



Making Connections



Ken Balough, Altoona Area High School

This game has been adapted from the “Math Games and Activities with Dice” book by Charles Lund. The game is ideal for use during the beginning and ending of the school year and before holiday breaks. The purpose of the game is to have students practice their basic math facts without the use of calculators. It is intended as a fun way to encourage students to think outside the box as they try to find solutions that fit on the game board. The directions can be modified to suit the needs and abilities of the students playing the game. I have listed some alternative rules below the game board.

Materials: Four dice, game board, and four Bingo chips per player.

Directions:

- This game is for 2 – 3 players. Highest roll of a die begins.
- The object of the game is to be the first player to get **four** consecutive chips in a row, column, or diagonal on the Making Connections board.
- The first player rolls all four dice, then has one minute to use addition, subtraction, multiplication and/or division to combine the numbers on the dice so that the result is an unoccupied number on the game board. If successful, he or she places a Bingo chip on the number. If an unclaimed number cannot be found in one minute, the player loses his/her turn and play passes to the next player in a clockwise direction.
- If all four of a player’s chips are already on the board, he or she moves an already placed chip to another number.
- Play continues until someone has successfully placed four consecutive chips in a row, column, or diagonal.

Making Connections Game Board

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	44	45	48	50	54	55
60	64	66	72	75	80	90	96
100	108	120	125	144	150	180	216

Alternative directions/rules:

1. Restrict the operations to be used based on what you are currently doing in class.
2. Permit the use of unlimited markers and require more markers in a row to win or possibly the creation of multiple rows in order to win the game.
3. For students working on powers and square roots, allow the use of those operations or possibly require the use of at least one of the operations when calculating values.
4. Create a tournament. For tournament play, may need to place a time limit on how long each game is to be played.

Laurel Highlands Mathematics Alliance (LHMA), an affiliate of the Pennsylvania Council of Teachers of Mathematics (PCTM - <http://pctm.squarespace.com/>) and the National Council of Teachers of Mathematics (NCTM - <http://www.nctm.org/>), gives mathematics educators the opportunity to grow professionally and interact with colleagues in Bedford, Blair, Cambria, Fulton, Huntingdon, and Somerset Counties. As such members can have a direct impact on state and national policy decisions in areas of certification, curriculum changes, and graduation requirements. Information about membership can be found at <https://lhma.wikispaces.com/Home>.

Laurel Highlands Mathematics Alliance Officers and Executive Board

Officers

President	Dr. Kate Remillard	St. Francis University
Past President	Dr. Nina Girard	University of Pittsburgh-Johnstown
Secretary	Marie Klein	Westmont Hilltop Elementary School
Treasurer	Dr. Pete Skoner	St. Francis University
Historian	Sherri Ritenour	Somerset Area High School
NCTM/PCTM Rep.	Dr. Nina Girard	University of Pittsburgh-Johnstown

Committee Chairs

Conference	Dr. Kate Remillard	St. Francis University
Membership	Jacqueline Baird	University of Pittsburgh-Johnstown
Newsletter	Victoria Czarnek	University of Pittsburgh-Johnstown
Nominations	Dr. Nina Girard	University of Pittsburgh-Johnstown
Try-Math-a-Lot	Linda Tully	University of Pittsburgh-Johnstown
Webmaster	Becky Piscatella	Richland High School

Representatives

Elementary	Anna Balouris Lisa Friedhoff Vacancy	Hollidaysburg Area School District Westmont Hilltop Elementary School
Secondary	Allison Frederick Becky Piscitella Ken Balough	Everett Area Middle School Richland High School Altoona Area High School
Post-Secondary	Dawn Cable Victoria Czarnek	University of Pittsburgh-Johnstown University of Pittsburgh-Johnstown

*Interested LHMA members are encouraged to consider filling vacant positions. For more information, please contact Dr. Nina Girard at nina@pitt.edu.

To submit articles or information about upcoming events for the Fall 2015 issue (deadline: mid-August), please contact Victoria Czarnek at vcc1@pitt.edu.

LHMA Mini-Conference Registration & Membership Form

Name _____ Date _____

Email _____

School District & Building or University Enrolled _____

Preferred Phone Number _____ It is a ___ cell ___ work ___ home

Preferred Mailing Address _____

Are you a current member of PA Council of Teachers of Mathematics? ___ Yes ___ No

Are you are current member of National Council of Teachers of Mathematics? ___ Yes ___ No

Teaching/Professional Responsibilities: (check all that apply)

- | | | |
|-------------------------------------------------------|------------------------------------------------|----------------------------------------------|
| <input type="checkbox"/> Pre-K/Early Child | <input type="checkbox"/> Special Education | <input type="checkbox"/> Pre-Algebra |
| <input type="checkbox"/> Primary (grades _____) | <input type="checkbox"/> Alternative Education | <input type="checkbox"/> Algebra |
| <input type="checkbox"/> Intermediate (grades _____) | <input type="checkbox"/> Administration | <input type="checkbox"/> Geometry |
| <input type="checkbox"/> Middle (grades _____) | <input type="checkbox"/> Math Coach | <input type="checkbox"/> Trigonometry |
| <input type="checkbox"/> High School (grades _____) | <input type="checkbox"/> Remediation/Tutoring | <input type="checkbox"/> Statistics |
| <input type="checkbox"/> College/University Professor | <input type="checkbox"/> Curriculum Director | <input type="checkbox"/> Calculus |
| <input type="checkbox"/> Pre-Service Teacher | <input type="checkbox"/> Substitute Teacher | <input type="checkbox"/> Integrated/Consumer |

Conference Registration and Membership Fees:

_____ \$20 **Professional Rate:** Mini-conference Registration (includes all materials and brunch buffet) and Membership (good through August 2016)

_____ \$15 **Pre-Service Teacher Rate:** Mini-conference Registration (includes all materials and brunch buffet) and Membership (good through August 2016)

If you cannot attend the mini-conference this March, but would like to initiate or renew your LHMA membership you may do so here:

_____ \$5 **Membership Only** (good through August 2016)

With my LHMA membership, I am interested in serving on following LHMA committees:

___ Membership ___ Nominations/Elections ___ Conference Planning ___ Try-Math-a-Lot

Check made payable to **LHMA** and **must be postmarked by March 11, 2015**. (There is no on-site registration.)

Please send registration form and payment to: Ms. Rebecca Weible
113 Seneca Street
Johnstown, PA 15904

For Conference Attendees: Please refer to conference program and indicate your preference for a Session.

_____ Session A (Subitizing) _____ Session C (Integrating. . .Rich Problems)

_____ Session B (Teaching Fractions) _____ Session D (MDC Roundtable)

Please list any special needs we can assist with during the Mini-conference:

Laurel Highlands Math Alliance (LHMA)
2015 Summer Dessert Social
Thursday August 6, 2015

RSVP and LHMA Membership Form

Name _____ Date _____

Email _____

School District & Building or University Enrolled _____

Preferred Phone Number _____ The number is:

(Circle One): Cell number Home number Work number

Preferred Mailing Address _____

Teaching/Professional Responsibilities: *(check all that apply)*

- | | | |
|-------------------------------------------------------|------------------------------------------------|----------------------------------------------|
| <input type="checkbox"/> Pre-K/Early Child | <input type="checkbox"/> Special Education | <input type="checkbox"/> Pre-Algebra |
| <input type="checkbox"/> Primary (grades _____) | <input type="checkbox"/> Alternative Education | <input type="checkbox"/> Algebra |
| <input type="checkbox"/> Intermediate (grades _____) | <input type="checkbox"/> Administration | <input type="checkbox"/> Geometry |
| <input type="checkbox"/> Middle (grades _____) | <input type="checkbox"/> Math Coach | <input type="checkbox"/> Trigonometry |
| <input type="checkbox"/> High School (grades _____) | <input type="checkbox"/> Remediation/Tutoring | <input type="checkbox"/> Statistics |
| <input type="checkbox"/> College/University Professor | <input type="checkbox"/> Curriculum Director | <input type="checkbox"/> Calculus |
| <input type="checkbox"/> Pre-Service Teacher | <input type="checkbox"/> Substitute Teacher | <input type="checkbox"/> Integrated/Consumer |

Summer Social RSVP and Membership

_____ \$5 **Summer Social Only:** *Dessert Bar and Beverages*

_____ \$10 **Summer Social and Membership:** *Summer Social (Dessert Bar and Beverage) and Membership (Good through August 2016)*

_____ Renew Membership _____ New Membership

With my LHMA membership, I am interested in serving on following LHMA committees:

_____ Membership _____ Nominations/Elections _____ Conference Planning _____ Try-Math-a-Lot

Check all that apply: I am currently a member of _____ PCTM _____ NCTM

Check made payable to **LHMA** and **must be postmarked by July 27, 2015. Please send RSVP form and payment to:**

Kate Remillard
116 E Alton St
Ebensburg PA 15931