

00:20:05 Trena Wilkerson: Hello from Waco, TX!
00:20:10 Emily Kavanagh: Hello from Columbia, MD.
00:20:29 Donna Misciagna: Hello from Tucson, AZ.
00:20:33 Judy Radigan: Hi from Maine!
00:20:34 Cindy Bryant: Hello from Springfield, MO. Please set your chat to
"All panelists and attendees" so everyone can see your posts.
00:20:35 Linda Koval: Hello from Bealeton, VA!
00:20:38 Tanya Landry: Hi from Baton Rouge! So glad for these.
00:20:38 Janice Novakowski: Hello from Vancouver BC!
00:20:47 Linda Koval: Over 25 Sessions!
00:20:48 Carol Matsumoto: Hi from Winnipeg many
00:20:50 Jacqueline Colbourne: Hello from Maryland
00:20:53 Barbara Post: Orange, CA about 10 sessions
00:20:53 Judy Radigan: Many, Many, Many
00:20:54 Sharon Black-MacKinnon: Hello from NB Canada. This is the 81st
session:-)
00:20:57 Lisa Lunney Borden: hi Janice!
00:20:57 Jenny Cheng: Hello from Redwood City, CA
00:20:57 kim bolf: Duluth,
00:20:58 Olga Kosheleva: hello from El Paso, TX, I attended all webinars.
00:21:00 Lesly Brown: Hello from "Let's Play Ball" in Tennessee.
00:21:01 Janice Novakowski: I think this about my 30th session
00:21:02 Macobia Harris: Hey from Desoto, TX
00:21:03 Keri Naso: hello from Long Island New York
00:21:15 Patrick Montague: Hello from Weslaco, TX, 25 sessions
00:21:16 Heather Hoepfner: HI from Portland Oregon
00:21:17 Jamie Rossi: Lake George, NY
00:21:21 Macobia Harris: I've lost count lol
00:21:21 Vittorio Ciummo: Vittorio from Chicago
00:21:23 Adonia Arteaga: Hello from Denver, CO!
00:21:23 Esther Winikoff: hello from Baltimore, MD!
00:21:25 Jasmine Mills: Hello everyone, I'm from Maryland!
00:21:25 Thy Dinh: Hi from San Diego, CA for my 50th session or so
00:21:26 Jamica Craig: Hello from Brooklyn, NY
00:21:27 kim bolf: Duluth, MN 18
00:21:28 Keri Naso: I lost count of how many classes I've taken
00:21:30 Aya Zvaigzne: Kindest regards to all from Nashville, TN
00:21:31 Shannon Hammond: Hello from Worcester, Massachusetts. About
15
00:21:31 Kathleen McFadden: Hi from Queens NYC
00:21:34 Michelle Defilippis: Hello from Toronto, Ontario :)
00:21:35 Emerlina Binuya: Hi! I'm Emerlina from Petersburg,VA
00:21:40 Skip Fennell: Hello from Westminster, Maryland
00:21:41 dana dulzo: hello from dana in novi mi
00:21:41 Lance Brauchla: Howdy from IN
00:21:41 Ter Turner: Hello from Stouffville, Ontario, Canada
00:21:45 ABDUL OTHMAN: Hi from Malaysia
00:21:45 marissa heitman: hello from Everett WA. I have been to 35.
and it is 4pm here
00:21:47 Mary France Imperial: Hi from Philippines. 45

00:21:48 Zita Amor Mankos: Hello everyone this is Ms. Zita Amor C.
Mankos -NYC

00:21:59 Jolene Perkins: Lake Charles, LA

00:22:00 Todd Smallcanyon: Southern Utah

00:22:00 Georgina Coffin: Hello from Fircrest, WA

00:22:00 Shashidhar Belbase: Hello from the United Arab Emirates (UAE) !

00:22:01 LANY JAMERO: good morning from philippines

00:22:05 Julie Mainwaring: Hello from Portland, Oregon

00:22:11 LF W: Good morning from Singapore

00:22:19 Pauline Oji: Hello Baltimore MD

00:22:23 Elmer Mayol: Hello everyone from Philippines

00:22:23 Jonathan Marcovitz: florida

00:22:26 Jolene Perkins: Louisiana

00:22:27 Kim Petersen: Hello from Calgary, Canada!

00:22:28 NITIN MALVIYA: Hello from India

00:22:29 Ma. Lorena Aloquina: goodmorning from Philippines

00:22:34 Carol Matsumoto: @Lisa to a fellow Canadian Haven't seen you
in quite a while

00:22:40 Chad Hale: ohio

00:22:43 Lisa Lunney Borden: hi Carol!

00:22:54 Nora Marasigan: Hello from Philippines.

00:22:56 jeanine colwell: hello from newport nc, I have been to over
50 webinars

00:23:00 Mark Fili: Hello from Queens, NYC

00:23:06 Randolph Chapman: Hello from NYC

00:23:07 Carmelita Nalzarro: Hi from JEDDAH, SAUDI ARABIA

00:23:12 Lesly Brown: I have loved every minute of these Webinars and
learned an incredible amount. if I have missed any, I go back and watch them in the
next or so.

00:23:19 Gurpreet Sahmbi: Hi from Toronto, ON!

00:23:28 Andréa Chew: Hello from Spotsylvania, VA

00:23:33 Cherish Alberts: Hi from Virginia!

00:23:35 Laurie Walker: Hi from Northampton, MA

00:23:37 Arief Budi Wicaksono: hello.. from Indonesia

00:23:39 Honey Sacro Swem: Hello from Redlands, CA

00:23:39 India Puch: India from Columbia, SC. day 65

00:23:44 Lawanda Mahomes: Hi everyone! Chicago, Illinois

00:23:45 Emily Kavanagh: I lost count but no I am in the 70s

00:23:56 Jaime Higgins: Hello, again, from Philly!

00:24:03 Debra Cowan: Hello, from Mastic beach, NY

00:24:03 Rogelio Lapulapu: Good morning everyone ! This is
Rogelio...from the Philippines.

00:24:04 Emily Kavanagh: That should have said know

00:24:06 Maria Villagomez: Hello from Sacramento CA

00:24:22 Elisa Waingort: Hello everyone! Logging in from Calgary, Alberta,
Canada.

00:24:37 Jet Yeung: Hello Everyone--Jet from Henderson Nevada

00:24:38 Eduardo Enjambre: Hello from Upper Marlboro, Maryland.

00:24:47 Sharon Black-MacKinnon: Beautiful place!!

00:25:09 Chonda Long: Resources for today's session
<https://bit.ly/3iQtZr6>

00:25:10 Ana Waisanen: Hello from Deltona, Florida Ana Waisanen.
00:25:10 Jorge Veloso: Hello from Angola.
00:25:11 Ana Cristina Sanz Gomez: hi from Fort Worth, Tx!
00:25:15 peter zirnis: hi from now phase 3 Ontario
00:25:18 David Barnes: Resources for today's session
<https://bit.ly/3iQtZr6>

00:25:26 Catherine Bertrand: Hello from IN
00:25:30 Chonda Long: Resources for today's session
<https://bit.ly/3iQtZr6>

00:25:31 Janet Gidding: Hello From New York City
00:25:52 Bill Hudson: Hello from Fountain Inn SC
00:25:56 Estelito Reyes: Hello from Baltimore, MD
00:26:25 Mohamed T: Greetings from Mohamed CT
00:26:35 Janet Gidding: Interesting
00:26:40 Cindy Bryant: Please set your chat to "All panelists and attendees" so everyone can see your posts.
00:27:27 Cindy Bryant: Please set your chat to "All panelists and attendees" so everyone can see your posts.
00:27:27 Mohamed T: Awesome Heritage.
00:27:51 Caroline Che Nee Foy: Hello from Maryland
00:28:36 Michelle Engelstad: Hello from Cottage Grove, MN
00:28:58 Cindy Bryant: Thank you for honoring the history and people of the land.
00:29:20 Cindy Bryant: Please set your chat to "All panelists and attendees" so everyone can see your posts.
00:29:26 Nora Ramirez: Hello from Tempe, AZ
00:30:06 Gabrielle Bertrand: Hi from Maine!!
00:30:39 Iisha Pinckney: Hello from Charleston, SC

00:30:39 Melonie Smith: Hello from Chicago
00:30:40 Cindy Bryant: Welcome everyone who is joining today=ay!
00:31:54 Flora Roddy: We've been trying to do Land acknowledgements in our School District ~ Fairbanks North Star borough

00:32:24 Betty Stallings: Hello from VA
00:32:56 Imelda Valencia: Hello from Maryland
00:33:10 Mohamed T: Lovely
00:33:31 Carole Receveaux: Hello from Vancouver Island
00:34:02 Sharon Black-MacKinnon: Very sad place
00:34:20 Linda Koval: How sad!
00:34:20 beth blumberg: hello from Westborough, MA
00:34:21 Rachel Arashiro: Same here in Hawaii
00:34:22 Elisa Waingort: The last residential school closed in 1996 in Alberta.
00:34:23 Keri Naso: how sad

00:34:25 Shana Frank: Hi, I'm joining from Vermont.
00:34:29 Sandra Wildfeuer: This all happened in Alaska also...
00:35:23 Thy Dinh: trauma can last for generations and is often passed along to descendants
00:35:59 Janet Gidding: Remind us please what is TRC
00:36:31 Elisa Waingort: TRC=Truth and Reconciliation Commission
00:36:34 Tyrone Martinez-Black: Truth and Reconciliation Commission
00:36:47 Aya Zvaigzne: Also in Wisconsin, Menominee Tribe
00:39:09 Karen Tooman: This is powerful information and great insight into the broad development and history of mathematics.
00:39:42 Gabrielle Bertrand: Yes! Any resources in this area would be awesome!!
00:40:33 Alison Sturrock: Here here!
00:42:35 Barbara Lambert: That is so cool!
00:42:44 Janet Gidding: 3 times around plus a thumb width! Awesome!
00:43:08 Iisha Pinckney: Wow!
00:43:15 Chonda Long: Resources for today's session
<https://bit.ly/3iQtZr6>

00:43:25 David Barnes: Resources for today's session
<https://bit.ly/3iQtZr6>

00:43:30 Chonda Long: The recording will be available at www.nctm.org/100 tomorrow.
00:44:01 Linda Koval: Students now will understand why they are using math in their life with the Quill Boxes.
00:44:40 Stephenia Courtney: Hello from Las Vegas, NV
00:45:32 LeAnna Deveaux-Miller: Good Evening from New Providence, The Bahamas
00:45:39 Cindy Bryant: Beautiful!
00:46:01 Gabrielle Bertrand: Wow I would LOVE to teach math through this lens
00:46:14 Karen Tooman: I live and teach in a community where Gullah history is prevalent. I'm interested in investigating the math connections.
00:46:42 Tyrone Martinez-Black: Yes to this Karen ^^
00:47:48 Rogelio Lapulapu: nice approach and strategies
00:50:34 Cindy Bryant: Teaching via problem solving.
00:51:13 Linda Koval: What an interesting idea between numbers and spatial relationship.
00:52:04 Janet Gidding: Great drawings!
00:52:17 Janet Gidding: How many students in your class?
00:52:25 Cindy Bryant: Great questions to ask the students about math.
00:54:02 Gabrielle Bertrand: I love the collaboration—such a huge value in so many cultures!!
00:54:58 Janet Gidding: It sounds similar to Montessori.
00:55:23 Gabrielle Bertrand: I like this!
00:56:35 Janice Novakowski: Lisa, I am really appreciating the idea of focusing on the epistemology of the community and the role of language within that.
00:57:29 Carol Matsumoto: @Janice Great seeing you here
00:58:13 Janet Gidding: Thinking!

00:58:24 Janice Novakowski: Hi Carol! I have read Lisa's work for years but have always missed her at conferences. So grateful for this opportunity to hear her present.

00:58:56 Emily Kavanagh: My students love working with manipulatives

00:59:36 Janet Gidding: Love that!

01:00:30 marissa heitman: i am sitting here with my hands doing math like that. i love it

01:01:01 Gabrielle Bertrand: This really helps kids move from additive to multiplicative thinking!

01:01:23 Janet Gidding: Hilarious

01:01:40 Cindy Bryant: Please change your set to "All panelists and attendees" so EVERYONE can see your chat posts.

01:02:13 Gricelda Monroy: Sometimes we focus so much on the math language and making sure students know this because we think if they know the language they will be able to explain their math, but WOW it does not have to be that way - Thank you for this!

01:02:41 Gabrielle Bertrand: They are still unsure in 6th grade!

01:02:41 Rosanne Marino: So much of this happens in the U

01:02:46 Rosanne Marino: S also!

01:03:06 Nora Ramirez: And because they use the correct language does not mean they have any understanding

01:03:29 Cindy Bryant: Absolutely @Nora! Great to see you on here.

01:03:33 Gricelda Monroy: So true @Nora!

01:03:55 Rachel Arashiro: that's a good conversation to have

01:04:35 Gabrielle Bertrand: It would be cool for the kids to see what they notice about the numbers in the odd bin and even bin..

01:05:00 Linda Koval: This type of reasoning is so important!

01:05:07 Honey Sacro Swem: definitely develops conceptual understanding

01:05:18 Gabrielle Bertrand: And you didn't actually "teach" them anything—they discovered it!!

01:05:26 Gabrielle Bertrand: Sooo cool

01:05:43 Sharon Black-MacKinnon: Love this!

01:06:01 Daniel Irving: What an amazing idea!

01:06:06 Nora Ramirez: @Gabrielle Yes and our job is to facilitate that discovery.

01:06:44 Gabrielle Bertrand: I tell people I am a Discovery Facilitator:)

01:07:02 Mike Shaughnessy: Dienes blocks been around since the 60's

01:07:23 Stephenia Courtney: awesome

01:07:48 Gabrielle Bertrand: Ohhhh so $5 \times (-3)$ would be ADDING 5 groups of -3

01:07:54 Linda Koval: This is great representation of negative times negative equals positive!

01:07:59 Linda Koval: Very powerful!

01:08:08 Gabrielle Bertrand: Agreed

01:10:42 David Barnes: Sense making?

01:11:48 Rosanne Marino: We really do need to listen to our students to learn from them to bring the curriculum to their level. So true!

01:12:20 Linda Koval: Making connection is huge!

01:12:34 dana dulzo: wow, this just blows me away. why do we make teaching so hard by teaching formulas and rules

01:12:44 William Driscoll: love her emphasis on listening to her kids!
01:12:55 Cindy Bryant: Good question @Dana!
01:13:26 marissa heitman: lol
01:13:54 Linda Koval: I think Dana, at some point we want students to be efficient and maybe that is when the rules and formula comes in? I am guessing.
01:14:08 Cindy Bryant: Exactly Linda!
01:14:25 Stephenia Courtney: I love this!
01:14:48 Linda Koval: Shape of the number is fantastic!
01:15:00 Janet Gidding: When the brain starts to develop abstract thinking...
01:15:41 Iisha Pinckney: 1Eoh2_Cy8yH_0lwMI7jj06vRzkA3bY952
01:15:56 Linda Koval: Like the cube of a number makes a cube.
01:16:00 Cindy Bryant: Great idea to use the number shape chart.
01:16:14 Honey Sacro Swem: Standards for Mathematical Practice in action - making conjectures, finding patterns, making sense of problems, etc.
01:16:15 Gabrielle Bertrand: I love halving and doubling!!
01:16:19 Adonia Arteaga: As a kid I taught myself a way of adding by counting points on numbers. I showed that to one of my students who was really struggling and a light bulb went off for him. :)
01:16:24 Rosanne Marino: I usually ask kids why 4, 9, 25 are called 'squares' to get the 7th graders thinking and they don't always see it. Hear you there...
01:16:37 Gabrielle Bertrand: Just learned it last year! Yikes--goes to show ur never too old to learn
01:16:56 Linda Koval: Square root representation again so powerful!
01:17:01 Stephenia Courtney: I am speechless!
01:17:30 Cindy Bryant: Some of us were only taught rules and procedures with no opportunities to investigate. When we teach, we learn so much!
01:18:38 Linda Koval: Yes, I love teaching because I am learning all the time.
01:18:40 Janet Gidding: Powerful picture
01:18:41 Karen Tooman: Cindy and Stephanie, I agree with you!
01:18:50 Stephenia Courtney: yes @Cindy
01:19:37 Lance Brauchla: With attempting to get in all of the standards what often is lost is "discovery" lessons....but those are my favorite days!
01:19:52 Lance Brauchla: ...and the kids!
01:19:55 Gabrielle Bertrand: Me too:)
01:20:17 Mike Shaughnessy: Standards and Discovery don't need to be disjoint
01:20:19 Cindy Bryant: Love, love, love this!!!
01:20:22 Sharon Black-MacKinnon: Wela'lin Lisa
01:20:23 Elisa Waingort: Thank you. Loved this session!
01:20:26 Trena Wilkerson: Lisa, thank you for sharing--very powerful!
01:20:36 Eduardo Enjambre: Thank you.
01:20:39 Janet Gidding: Thank you Lisa!
01:20:41 Bill Hudson: Thank you for a wonderful presentation
01:20:46 Linda Koval: You are an amazing presenter and thank you so much for sharing!
01:20:46 MIKE GENUEL SALAZAR: Thank you!
01:20:47 Karen Tooman: Students should always have opportunity to discover math! Thank you for this presentation.
01:20:51 Flora Roddy: Thank you! Very wonderful information!

01:20:58 Jacqueline Colbourne: Thank you!
01:21:07 Gricelda Monroy: Thank you for this!
01:21:07 Stephenia Courtney: 🙌🙌🙌🙌🙌🙌
01:21:11 peter zirnis: thanks GREAT work
01:21:14 Stephenia Courtney: Thank you
01:21:15 Melonie Smith: Great presentation! Thank you.
01:21:22 Linda Koval: Thank you NCTM for having Lisa present!
01:21:22 Carmelita Nalzarro: Great presentation. I learned a lot from
it. Thanks Ms. Lisa likewise to Ms. Chonda. Stay safe. God Bless
01:21:27 Cherish Alberts: It is a touching story. Thank you so much
for sharing all of this!
01:21:28 Rogelio Lapulapu: Thank you for the great presentation,Lisa !
01:21:31 Kendra Edwards: thank you! great presentation
01:21:32 Patricia Daugherty: Thank you! This was fantastic.
01:21:36 Carol Matsumoto: Thanks Lisa. Great hearing you again.
01:21:43 Chonda Long: Resources for today's session
<https://bit.ly/3iQtZr6>

01:21:45 Daniel Irving: Thank you for this incredibly powerful and
informative presentation!!! What an amazing way to think about and teach these
concepts! I am grateful to have the opportunity to attend tonight!
01:21:46 Gabrielle Bertrand: Thank you so much! I have been wanting to
bring attention to the beautiful people who came before us that should be honored
and remembered.
01:22:03 Gurpreet Sahmbi: OAME mathies:
<https://www.mathies.ca/#gsc.tab=0>
01:22:09 Mary France Imperial: Thank you so much. Great session!
01:22:33 dana dulzo: thank you so much for opening up my eyes. teaching
the standards has made math not fun for anyone. teaching for discovery could bring
the beauty back to math.
01:22:52 Cindy Bryant: Thank you Lisa! Such a great session!!! 🙌🙌🙌🙌
01:23:08 Vikas Saxena: Wonderful ideas. Very interesting and informative
activities. Thanks to NCTM for organising such Webinars. Vikas Saxena
01:23:42 Keri Naso: Thank you Lisa
01:24:04 Chonda Long: Resources for today's session
<https://bit.ly/3iQtZr6>

01:24:11 Cheryl Ann Doyle E Barran: Thank you was very enlightening.
Verbing
01:24:16 Jasmine Mills: Thank you!
01:24:21 Keri Naso: great idea great session
01:24:40 ALEX QUYENVO: great time today, thank you so much
01:24:43 Janice Novakowski: Thank you so much to Lisa and NCTM!
01:24:43 Andréa Chew: Thank you so much...I will use our breakout groups
in our virtual teaching to make centers for my self-contained class.
01:24:47 Honey Sacro Swem: Thank you, Lisa. This was awesome. I love
all the ideas you shared. Thank you, NCTM. I'm learning so much from these free
webinars.
01:24:52 Sandra Wildfeuer: Thank you!
01:24:55 beth blumberg: Thank you

01:24:55 Judy Radigan: Thank you!

01:24:57 Julie Mainwaring: I love that you waited to let the kids realize they were doing multiplication! Thank you for a wonderful presentation

01:25:00 Jill Newton: Thanks, Lisa...inspiring work :)

01:25:05 Gurpreet Sahmbi: Thank you so much, Lisa. Wonderful work

01:25:07 Tanya Landry: Thank you so much!

01:25:08 marissa heitman: thank you thank you thank you

01:25:10 Zita Amor Mankos: Great presentation, Thank you, Zita Amor C. Mankos

01:25:11 Myra Absin: Thank you. Excellent presentation

01:25:13 Susan Danskin: Loved it, one of the best in the series of 100!!

01:25:21 Jet Yeung: Thank you for sharing history and skills. I love the figure it out before naming. Information very informative.

01:25:26 Ana Waisanen: Thank you Lisa! I will implement this strategy in my class.

01:25:28 Carole Receveaux: Un grand merci !!

01:25:30 Shana Frank: Mathies (interactive math supports):
<https://www.mathies.ca/#gsc.tab=0>

01:25:35 Vikas Saxena: Thanks Lisa. Thanks for this wonderful session.

01:25:35 Debra Cowan: thank you, the presentation th I'll on was great.

01:25:37 marissa heitman: you are so happy talking about math. i love it

01:25:40 Carole Bamford: Thank you...amazing presentation!

01:25:48 Laurie Walker: Thank you Lisa! Loved this!!

01:25:52 Rosanne Marino: Congrats on the X ring!

01:25:55 Olga Kosheleva: Thank you!

01:25:58 Betty Stallings: Thanks Ms Lisa, It was a lot of info and great reasoning.

01:26:06 Rogelio Lapulapu: From Rogelio...Thank you for great presentation , mam Lisa !

01:26:17 Denise Smith: Thank you Lisa! I had hoped to see you in Saskatoon a few years ago and was disappointed when you had had to cancel your attendance. This was well worth the wait to see you present. Thank you for the Canadian context as well, it is much appreciated!!

01:26:19 Jonathan Marcovitz: thanks.

01:26:26 Nora Ramirez: Thank you, Lisa. Love the "verging" focus.

01:26:31 Aya Zvaigzne: Excellent seminar. Thank you very much.

01:26:38 Cindy Bryant: She was scheduled to be one of our highlighted speakers in Chicago! So I am so pleased she accepted our invitation to present for the 100 Days!

01:26:38 Nora Ramirez: verbing

01:26:51 Rosanne Marino: Awesome! Thank you!

01:27:00 tnpound: thank you!

01:27:12 Patrick Montague: Thank You.

01:27:16 Cindy Bryant: VERBING...my new word!

01:27:29 Jennifer Gonzales: Thank you so much for the learnings

01:27:32 Lesly Brown: Thank you Lisa! The Webinar was thought provoking and a great learning opportunity.

01:27:38 Dirk Wahanik: Very informative, thanks!

01:28:00 marissa heitman: see you monday

01:28:03 Myra Absin: Thank you. Nice learning with you .
01:28:23 Rosalyn Bantay: thank you...
01:28:33 Caroline Che Nee Foy: Thank you
01:28:39 Cindy Bryant: It's a BONUS session!
01:28:41 Rommel Daz: Thank you
01:29:12 Cindy Bryant: showmeyourmath.ca
01:29:17 Teressa Scott: Thanks Mike!
01:29:30 kim bolf: Thank you. This was wonderful!
01:29:41 Todd Smallcanyon: Thank you. Was great
01:30:39 Jolene Perkins: Thank you, this was great!!!
01:30:52 Daniel Irving: We can always log on to NCTM's website and access it
through the on-demand video.