

00:29:27 Megan Riley: Hi from ohio  
00:29:31 Jamie Cook: hello from Arizona  
00:29:33 Jorge Veloso: Hello from Angola.  
00:29:35 Katherine Rossignuolo: Hi from PA  
00:29:41 Jaclyn Murray: Hi from Atlanta, GA  
00:29:44 Vanessa Stokes: Hello from Chicago!  
00:29:45 Ana Guerrero: hello from IL  
00:29:46 Staci Brock: Hello from Salt Lake City, UT  
00:29:47 Noe Eugenio: Good morning from Philippines  
00:29:48 Darlene Tyler: Hi from Cleveland, Oh  
00:29:49 Sheila Kirton-Robbins: Hi from Nashville, NC  
00:29:49 Catherine Bronikowski: Hello from Milwaukee, WI  
00:29:50 Emily Kavanagh: Hi from Columbia, MD  
00:29:50 Natasha Gambarov: Hello from Boston, A  
00:29:52 Myla Detecio: Good morning from the Philippines  
00:29:54 Natasha Gambarov: MA\*  
00:29:54 Gloria Carrasco: Hi from Winton, CA  
00:29:56 Maral Aznavour: Hello from Texas!  
00:29:56 jeanine colwell: hello from Newport, NC  
00:29:58 Angelita Beltran: Hello from Waukegan, IL  
00:29:59 Viragni Chand: Hello, from California  
00:30:00 Young Welch: Hello from Chicago  
00:30:00 Ann Shafer: Hello from Texas!  
00:30:01 LeAnna Deveaux-Miller: Good Evening: New Providence, THE BAHAMAS  
00:30:02 Jorge Veloso: Obrigado.  
00:30:02 Karen Notestine: Hello from Reaford NC!  
00:30:05 Trena Wilkerson: Hello from Waco, TX!  
00:30:07 Masooma Razzak: Howdy from Houston, TX!  
00:30:07 Olga Kosheleva: Hello from El Paso, TX.  
00:30:08 Ann Wycoff Bagshaw: Hello from Fort Carson, Colorado  
00:30:08 Gladys Montoya: Hello from Zion, Il!  
00:30:10 Kathy Felt: Hi from Illinois!  
00:30:12 Joan Albers: Hello from Ohio!  
00:30:13 Karen Campbell: Greetings- Saskatchewan, Canada  
00:30:13 Patricia Eberhardt: Hello from sunny AZ  
00:30:14 Tanya Landry: Hello from Baton Rouge, LA!  
00:30:14 rachel wingo: Hello from Kentucky  
00:30:15 Josephine Romero: Hello from Dallas, Texas.  
00:30:16 Pamela Stark: Hello from Massachusetts!  
00:30:16 Pamela Goodwin: Hello from NJ:)  
00:30:17 Rachell Scott: Hello from Maryland  
00:30:18 Shashidhar Belbase: Hello from United Arab Emirates (UAE).  
00:30:19 Laura Cranmer: Hello from Colorado!  
00:30:19 Michael Lanstrum: Hello from Cleveland, OH  
00:30:20 Grace Vaught-Smith: Hi from Rifle, CO  
00:30:21 Jamie Foster: Hello from Monticello, KY.  
00:30:23 Lesly Brown: Hello from Knoxville, Tennessee. Lesly Brown  
joining in.  
00:30:25 Clarissa Rothe: Hello from San Bruno, CA!  
00:30:25 Mark Fili: Queens, NYC

00:30:29 Melanie Mekalip: Brownsboro, Texas  
00:30:31 Tina Hill: Howdy! from Bristol TN  
00:30:33 Jorge Veloso: Obrigado, Teresa.  
00:30:33 Nicolette Nalu: Good evening from K-5 Math Specialist and AMTEA  
president in ALABAMA! Roll Tide! :)  
00:30:34 Norliza Delina: Hello from Philippines!  
00:30:34 Gabrielle Bertrand: HI from Kittery, Maine!!  
00:30:35 Patricia Johnston: Hello from laurel Md.  
00:30:36 Stephanie Caragher: HI from New Hampshire  
00:30:37 Skip Fennell: Hello from Westminster, Maryland  
00:30:38 Esther Winikoff: hello from Baltimore!  
00:30:39 Lisa Chang: Hi from New York  
00:30:39 Leny Gaviola: Good morning. From Philippines.  
00:30:41 Daniel Irving: Hello from North Providence, RI!  
00:30:41 Ramona Quintero: Hello from Long Beach, CA  
00:30:41 Justin Klinger: Romeoville IL is saying hello.  
00:30:41 Lesoleta Smith: Hi from Jamaica  
00:30:43 Tessie Menta: Good afternoon from Stockton, California!  
00:30:44 Jennifer Eaton: Hello from San Diego, CA  
00:30:44 Dr. Yankey: GA  
00:30:45 Linda Baker: Hello from Indiana!  
00:30:45 Ramona Hall: Hi from Charlotte, NC  
00:30:46 Rodney Cooper: Greetings from Killeen, Texas  
00:30:46 Kendra Edwards: Hi from Brooklyn, NY  
00:30:47 tracey simmons: Good evening from Jamaica, NY  
00:30:48 Ayunda Sri Wahyuningrum: Hello from Indonesia  
00:30:51 Myla Detecio: Hello Ma'am Olive and Ma'am Au from the Philippines!  
00:30:52 Lawanda Mahomes: Hi guys! Chicago, Illinois  
00:30:53 Kristin Randall: Hello from California  
00:30:54 Victoria Campbell: Hi from Tucson, AZ  
00:30:55 Valerie Vanderport: hello from Everett, Wa!  
00:30:56 Jacques Ludman: Hi from NH, USA  
00:30:57 Erica Krick: Greer, Az (on vacation Gilbert, AZ is where I live)  
00:30:58 Dawn Lopez: Hello from Long Island, NY  
00:31:00 audrey west: Hi, from Lexington, KY.  
00:31:02 Gloria Flores: Hello from Texas  
00:31:03 Rhonda Homberg: Hello from Grand Prairie Texas  
00:31:04 peter zirnis: Hi from Toronto  
00:31:04 Todd Smallcanyon: Southern Utah  
00:31:07 Ronald Lubatti: lebanon, maine  
00:31:13 Thomas Connolly: Hello from Orange County, NY  
00:31:14 Gabrielle Bertrand: Hey Lebanon!!  
00:31:15 Rosalyn Bantay: Hello from Philippines  
00:31:16 Christy Rose: Alexandria, VA  
00:31:17 David Barnes: Download tonight's handout at  
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00:31:17 Melonie Smith: Hello from Chicago  
00:31:18 Macobia Harris: hello from Desoto TX

00:31:19 Victoria Simmons: good evening everyone, from Houston Texas  
00:31:21 Ellen Metzger: Hello All from Newton, Massachusetts!  
00:31:23 Chonda Long: Download tonight's handout at  
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00:31:24 Sharon Black: Good evening from New Brunswick Canada  
00:31:25 Patti Gawronski: Hi from Texas  
00:31:28 Tessie Menta: Hello, from Philippines  
00:31:40 Chonda Long: Download tonight's handout at  
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00:31:42 Wendy Britt: Wendy Britt Lumberton NC  
00:31:47 Veronica Troup: Hello. Veronica from Tennessee  
00:31:58 Ma.Cecilia Cueva: good morning beautiful people  
00:32:00 Myla Detecio: Good morning everyone from the Philippines!  
00:32:00 Emily Graff: Greetings from Mentor, Ohio  
00:32:02 Bobby Flores: Hello from Houston, TX  
00:32:08 Monica Roland: Good evening from Savannah Ga  
00:32:16 Abdul Razak Othman: Abdul razak from Malaysia  
00:32:21 Lance Brauchla: Welcome from Ege, IN  
00:32:26 Asha Canty: Hi from the Bronx,NY  
00:32:27 Nicolette Nalu: Hi SKIP! I hope you are well. :) Hello everyone  
from AMTEA president from ALABAMA!  
00:32:31 LaDonna Allison: Good evening from Durham North Carolina  
00:32:31 michelle morison: Hello from Mammoth Lakes, California  
00:32:33 Teresa Bulanda: hello from Connecticut:))  
00:32:35 Beth Nalker: Hello from VA  
00:32:38 Ma.Cecilia Cueva: good morning beautiful people joining here  
from Philippines.  
00:32:40 Mary Dugas: hi Lafayette Louisiana  
00:32:47 Nell Thurlow: Hello from Lafayette, LA  
00:32:47 Robin Schwartz: Hi from NYC  
00:32:47 Aya Zvaigzne: Kindest regards to all from Nashville, TN  
00:32:48 Rachel White: Hello from Southern Maine.  
00:32:49 Erika Hassay: Hi from Austin, TX!  
00:32:49 Dave Hankin: Hello again from Globe, Arizona!  
00:32:50 Stephanie Welch: HELLO FROM DC  
00:32:51 William Sabor: St. Louis, MO  
00:32:51 Adriana Gómez Reyes: Hi, from México City  
00:32:52 Shannen Bunoski: Hello from Severna Park, MD  
00:32:56 Marvin Respicio: Hello from Queens, New York!  
00:32:57 Shawn Roberts: Hello from Kerman, California  
00:32:57 catherine abbott: Maryland is present. Hi folks.  
00:32:58 amanda Helgerson: 8th grade math from Mass  
00:32:58 Sonia Calantropio: Hi from San Diego CA  
00:32:58 LANY JAMERO: good morning from Philippines  
00:32:58 Nicole Walden: Nicole from Mt sterling, Ohio  
00:33:01 Jennifer Marinsky: Hi from Waco Texas

00:33:01 Maria Woehl: Hello from San Diego, CA  
00:33:02 Angela Rebol: Hi from Santa Cruz, CA  
00:33:03 SAPNA SHARMA: HELLO from Nogales, Arizona  
00:33:08 Cindy Cartwright: Hello from Charlottesville, VA. :)  
00:33:09 Anupama Anand: hi from san jose,ca  
00:33:10 Justin Klinger: From some reason, I can not click on the handout  
link on my chromebook. Anyone have an idea to help?  
00:33:10 Ganell Tyson: Hello from North Carolina  
00:33:10 Rachel West: Hello from Midlothian VA  
00:33:11 Dave Becker: Windermere FL here!  
00:33:11 Victoria Truman-Dooley: Palm Beach Gardens, Florida  
00:33:11 Christa Charlton: Hello from Kewanee Illinois!  
00:33:13 Brown Taryn: Good evening all, from Jackson, MS.  
00:33:19 Arnold John Bulanadi: Hello. Arnold from Jacksonville, Florida  
PHUS  
00:33:22 Denise Beavers: Hello from Tennessee  
00:33:29 catherine abbott: Hi TN  
00:33:30 Janet Koza: Hello from Janet, Lowell, MA  
00:33:31 Corina Liu: Good evening from Houston, Tx  
00:33:38 Chonda Long: Download tonight's handout at  
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00:33:44 Athalean Gee: Athalean Gee San Diego  
00:33:45 Linda Pritchett: Hello! Georgia  
00:33:46 Christina Hall: Hello from Yuma, AZ  
00:33:47 Nicolette Nalu: Try to copy and paste into your browser... Chromebooks  
are not very compatible with many features in Zoom.  
00:34:09 David Barnes: You can also copy and paste the link from the chat  
into your browser.  
00:34:10 Mohamed Jamaludeen Thirapusa Mohaideen: Greetings to all! Mohamed,  
CT  
00:34:11 David Barnes: Download tonight's handout at  
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00:34:19 Laurie Walker: Hi from Northampton, MA  
00:34:19 catherine abbott: Looking for ways to support student  
collaboration (or argumentation) online.  
00:34:22 dana dulzo: hello dana from novi mi  
00:34:25 Rene Stratton: hello from Seattle  
00:34:28 Justin Klinger: Got it.  
00:34:30 Nora Marasigan: Hello from Philippines  
00:34:34 Brandi Ledbetter: St. George, Utah  
00:34:39 Janice Magauay: Hello from Maryland  
00:34:44 Kaitlyn Maples: Hi from Bristol, VA!  
00:34:46 George Roy: Hello, George from Columbia, SC  
00:34:52 Hannah Rooney: Hi from Worcester, MA!  
00:35:05 Amy Tucker: Hi from Wayne, Maine  
00:35:10 Marie Hannon: Hi from Tinley Park, Illinois

00:35:12 Necole Atkins-Dowd: Hi from Las Vegas, Nv  
00:35:24 catherine abbott: Hi Kaitlyn from Maryland. This is Cate from  
Maryland  
00:35:33 Danielle Bentley: Hello from Kansas City!  
00:35:33 Danielle Leger: hello from Danielle Leger Irmo SC  
00:35:39 Mary France Imperial: Hello from Philippines!  
00:36:01 Susan Danskin: Hello from Ithaca, NY  
00:36:02 Zorica Lloyd: Hi, from Chicago.  
00:36:20 Hema Swaminathan: hello from Frisco TX  
00:36:20 Chonda Long: Download tonight's handout at  
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00:36:22 Donna Jeck: Donna from Berea, KY  
00:36:32 dmeaney: Hello from NC  
00:36:34 Darvin Best: Hello from Fredericksburg, VA  
00:36:57 Trena Wilkerson: Hello from Waco, TX!  
00:37:02 Mary France Imperial: Thank you Chonda  
00:37:18 ANAIRIS DE LA CRUZ BENITO: Hello from Tallahassee, FL  
00:37:19 Geraldine Hayden: good evening from VADOC  
00:37:21 Susan Shuart: Hello from Farmville, VA  
00:37:33 Gina Kolibab: Hi From Louisville KY  
00:37:37 Donna Misciagna: Hi. I am Donna Misciagna from Tucson, AZ.  
00:37:45 Jet Yeung: Hello Everyone--Jet from Henderson , NV.  
00:38:17 Susan Bardenhagen: Susan, in Manassas, VA- 35 miles SW of DC  
00:38:42 catherine abbott: Play and Math are both 4 letters words. Play  
Math y'all.  
00:38:53 Susan Bardenhagen: @Susan D in Ithaca NY- I'm from LI and went  
to SUNY Cortland in the 70s, was in Ithaca a lot. =)  
00:39:02 Dave Hankin: Oh, there's a lot of us here...  
00:39:21 catherine abbott: Where is the poll?  
00:39:22 William Sabor: Where is the poll?  
00:39:28 Katherine Rossignuolo: middle school math teacher in Allentown, PA  
00:39:29 Stephanie Welch: Stephanie Welch, Washington DC  
00:39:34 Amy Tucker: MS teacherr  
00:39:35 Wendy Britt: Teacher  
00:39:36 Emily Kavanagh: Teacher  
00:39:36 amanda Helgerson: 8th grade math teacher in Mass  
00:39:36 Stephanie Welch: 6th grade teacher  
00:39:36 Gina Kolibab: Teacher  
00:39:36 Angelita Beltran: Teacher  
00:39:37 Victoria Campbell: Grade 3 teacher  
00:39:37 Clarissa Rothe: 7/8 Math teacher  
00:39:37 Sharon Black: Teacher  
00:39:37 audrey west: 6th grade math teacher  
00:39:38 Jennifer Smith: Teacher  
00:39:38 Vanessa Stokes: Middle School Math teacher  
00:39:38 Necole Atkins-Dowd: math teacher  
00:39:39 Gabrielle Bertrand: Teacher, informal reserch  
00:39:39 Shannen Bunoski: 2nd Grade Teacher

00:39:39 Denise Smith: coach  
 00:39:39 Karen Notestine: Teacher 6th grade  
 00:39:39 Linda Pritchett: Teacher  
 00:39:40 Janice Magauay: I am a Math teacher for 20 yrs now  
 00:39:40 Janet Koza: Fifth grade math teacher  
 00:39:40 Carole Bamford: Teacher  
 00:39:40 Marie Hannon: Math Specialist  
 00:39:40 Maria Woehl: middle school teacher  
 00:39:40 Beth Nalker: math resource teacher  
 00:39:40 Melissa Stanek: teacher  
 00:39:40 Denise King: teacher and parent  
 00:39:40 William Sabor: Algebra teacher  
 00:39:40 Justin Klinger: Teacher  
 00:39:40 Lisa Cudle: Middle school math teacher  
 00:39:40 Jacques Ludman: special educator  
 00:39:40 Bobby Flores: High School Teacher  
 00:39:41 Ramona Quintero: Teacher,  
 00:39:41 Danielle Grenader: Teacher in Cicero, IL  
 00:39:41 ANAIRIS DE LA CRUZ BENITO: Graduate student  
 00:39:41 Natasha Gambarov: recent graduate who studied early childhood  
 education  
 00:39:41 Steven Jarowski: Teacher  
 00:39:41 Rachel White: Teacher of math  
 00:39:41 Tim Sommer: Teacher  
 00:39:42 Patricia Eberhardt: 3-6 math teacher  
 00:39:42 Asha Canty: Middle SchoolMath Teacher  
 00:39:42 Macobia Harris: teacher  
 00:39:42 Abigail Santiago: Teacher  
 00:39:42 TINA LATTIMER: Teacher math 7  
 00:39:42 Veronica Troup: Teacher  
 00:39:42 Rene Stratton: high school math teacher  
 00:39:42 Mark Fili: Administrator  
 00:39:42 Ellen Metzger: Math Specialist 6-8  
 00:39:42 Laura Cranmer: Math teacher  
 00:39:43 Cindy Cartwright: 5th / 6th grade math teacher  
 00:39:43 Emily Graff: Title 1 math  
 00:39:43 Sheila Kirton-Robbins: 7th grade math teacher  
 00:39:43 Rene Corrales: Math and Sci MS teacher, second career  
 00:39:44 Andrea Chew: Teacher  
 00:39:44 Stacey Jackson: Mathematics Supervisor  
 00:39:44 Danielle Leger: I teach 7th grade math  
 00:39:44 Victoria Truman-Dooley: Middle school teacher  
 00:39:44 George Roy: university teacher educator  
 00:39:44 Maral Aznavour: Teacher Carrollton TX  
 00:39:44 Kristin Reedal: Middle school math teacher  
 00:39:44 Craig Kiecker: Grade 7&8 teacher in Tempe AZ  
 00:39:45 Mary Lou Vainisi: ms math teacher  
 00:39:45 Victoria Fain: 5th grade math teacher  
 00:39:45 Ayunda Sri Wahyuningrum: math lecturer and teacher  
 00:39:45 Linda Baker: math teacher - former unschooler!

00:39:45 Joan Albers: teacher of mathematics grade 4-6  
00:39:45 Shaylon Krautwald: teacher HS math  
00:39:45 Gil Geeran Bangeles: Teacher  
00:39:46 Anupama Anand: i am an high school teacher  
00:39:46 Penny Hauskins: Teacher from TN  
00:39:46 Tanya Landry: Teacher, HS math  
00:39:46 dana dulzo: math teacher at an alternative high school  
00:39:46 Patti Gawronski: teacher  
00:39:46 Gloria Flores: Middle School Teacher  
00:39:46 Glenda Escasinas: teacher  
00:39:46 Kaitlyn Maples: 8th Grade Teacher  
00:39:46 Kathy Austin: 6th grade Math educator in Chattanooga, TN  
00:39:47 Mary France Imperial: Teacher  
00:39:47 Kathy Felt: 8th grade math and Algebra 1 teacher  
00:39:47 Jenn Collier: teacher  
00:39:47 Dawn Lopez: K-6 Educator  
00:39:47 Corina Liu: I am middle school math teacher  
00:39:47 Kelly Cabral: 6th Grade Teacher - Massachusetts  
00:39:48 Sonia Calantropio: Middle school math  
00:39:48 Tina Hill: high school math teacher  
00:39:48 Rachel West: middle school math teacher  
00:39:48 Lesoleta Smith: teacher  
00:39:48 Nicole Walden: High School Algebra & Geometry teacher  
00:39:48 Kristin Randall: Preservice teacher/credential candidate -  
middle school math  
00:39:48 Catherine Bronikowski: HS Teacher and Dept Chair  
00:39:48 Donna Jeck: Middle school special education teacher  
00:39:48 Nell Thurlow: SPED teacher middle school  
00:39:48 Anna Digby: ms teacher  
00:39:48 Mark Vasicek: teacher hs  
00:39:48 Dr. Yankey: Educator  
00:39:48 Maria Padiernos: Teacher hs  
00:39:48 Susan Danskin: 8th grade math teacher  
00:39:48 Josephine Romero: middle school teacher  
00:39:48 Susan Neumann: I teach 8th grade math  
00:39:48 Abdul Razak Othman: Teacher Educator  
00:39:49 Eduardo Enjambre: Math teacher  
00:39:49 Gladys Montoya: MS Teacher  
00:39:49 Todd Smallcanyon: HS teacher  
00:39:49 Teresa Bulanda: middle school teacher  
00:39:49 Sheila Bishop: Middle school Teacher in NH  
00:39:49 Kim Frasher: Gifted Math Specialist grade 4-8  
00:39:49 Rosalind Brown: Teacher, middle school  
00:39:49 Young Welch: 7th grade math teacher  
00:39:49 Masooma Razzak: MS Teacher  
00:39:49 Angela Rebol: 7th grade math and science teacher  
00:39:50 Brandi Ledbetter: 7th teacher  
00:39:50 Megan Riley: 7th grade math teacher  
00:39:50 Shawnee Strachan: Teacher 4th-6th  
00:39:50 Aya Zvaigzne: HS math

00:39:50 Leny Gaviola: math 8 teacher  
00:39:51 Danielle Bentley: teacher:)  
00:39:51 Christina Hall: 6th grade Math  
00:39:51 catherine abbott: Middle school grade 6 to 8 math in public  
school title 1 and many EL students  
00:39:52 Brown Taryn: I'm a Middle School Mathematics Coach; starting my  
34th year.  
00:39:52 Lisa Chang: 7th grade math teacher  
00:39:52 Aura Rodriguez: I am a 4th grade teacher in Los Angeles County  
00:39:52 Barbara Lambert: Barbara Lambert, middle school math teacher  
in Columbus, GA  
00:39:53 Darlene Tyler: teacher grade 7  
00:39:53 0edx7z: middle school teacher  
00:39:53 Christa Charlton: hs math - GEOMETRY  
00:39:53 Melonie Smith: Teacher, 9 - 12  
00:39:53 Valerie Vanderport: math support teacher  
00:39:54 Carl Soares: 8th grade math teacher  
00:39:54 Victoria Simmons: TMS Math teacher  
00:39:54 peter zirnis: middle school teacher!!!!  
00:39:54 Marvin Respicio: Middle School Math teacher  
00:39:55 Nicolette Nalu: MATH SPECIALIST  
00:39:55 Susan Bardenhagen: K-8 teacher of 46+ years!  
00:39:55 Skip Fennell: college prof  
00:39:55 Viragni Chand: High School Teacher  
00:39:55 Adriana Gómez Reyes: I'm a mathematic high school teacher  
00:39:55 Susan Shuart: Sue, I teach math 7 and Algebra 1  
00:39:56 Jennifer Marinsky: I teach middle school math, and will be  
starting with a new district this year  
00:39:56 Darvin Best: 6th Grade Math Teacher  
00:39:57 Gloria Carrasco: High school Teacher  
00:39:57 Beth Seyler: 7th grade mathematic teacher in PA  
00:39:57 Hema Swaminathan: math middle school teacher  
00:39:58 Sarah Brubeck: 9th grade Algebra 1 teacher  
00:39:58 SAPNA SHARMA: Middle School Teacher  
00:39:58 Thomas Connolly: I am about to begin student teaching in high  
school mathematics  
00:39:59 Myla Detecio: Hello I am a teacher in the tertiary level for 13  
years now.  
00:39:59 Eric Totheroh: Alternative education for 16-20 year olds in Chicago  
00:39:59 Jamie Hall: middle school teacher - 35 years  
00:40:00 Sharon Black: teacher K to grade 12  
00:40:00 Nell Thurlow: 6th grade inclusion math  
00:40:00 Susan Johnson: Middle School Teacher  
00:40:01 Erica Krick: 7th grade teacher  
00:40:01 ALEX QUYENVO: high school teacher in Indiana but originally from  
Viet Nam  
00:40:01 Ma. Lorena Aloquina: grd8 public school teacher  
00:40:02 Ronald Lubatti: grade 8 math/algebra 1  
00:40:02 Ramona Quintero: 5th grade  
00:40:04 Denise Beavers: 6th grade math teacher



00:40:04 Aurora Simoneau: HS Teacher

00:40:04 Jet Yeung: elementary school

00:40:04 Jamie Foster: I'm a HS and college math teacher, finished with all but dissertation on EdD

00:40:05 Rodney Cooper: 7th Grade Math

00:40:06 Andrea Chew: Special Ed Teacher - 7th grade

00:40:07 Martha Atilano: English Learner Instructional Coach

00:40:08 Rene McNeal: Rene from Tuscaloosa, MS & HS Math Teacher and Math Chair

00:40:08 Carolyn Nelson: 6-8 math

00:40:11 Mary Dugas: adult Ed

00:40:11 Dave Hankin: 6th Grade Math, High Desert Middle School, Globe, Arizona.

00:40:11 Donna Misciagna: High School Math teacher

00:40:12 Nicolette Nalu: K-5 MATH SPECIALIST

00:40:13 Aya Zvaigzne: 11th and 12 grade

00:40:17 Staci Brock: Middle school teacher

00:40:17 Rosalyn Bantay: Junior High School Math teacher

00:40:18 Athalean Gee: Math teacher consultant in San Diego

00:40:18 Esther Winikoff: I was a math teacher for 7 years, took an extended maternity leave, and I am excited to return to a classroom soon.

00:40:21 Tessie Menta: grades 9 & 10

00:40:22 Tessie Menta: 9-12 Math teacher

00:40:22 Dewey Gottlieb: Just a friendly reminder: in your chat window please set the recipient for your comments to "All panelists and attendees"

00:40:23 Geraldine Hayden: all subjects. i teach Math mostly

00:40:25 Jorge Veloso: Professor

00:40:26 Ma.Cecilia Cueva: Grade 7 Math

00:40:30 Lance Brauchla: Find it interesting that 15 years ago I was seeing what I could do to get young ladies interested in math and it's following career paths. Now 60% plus of my advanced classes are female (middle school). Let's broaden the spectrum further!

00:40:30 Kimberly Foster: Kimberly..NE Colorado

00:40:54 Gabrielle Bertrand: Nice Lance!

00:40:57 Dewey Gottlieb: Just a friendly reminder: in your chat window please set the recipient for your comments to "All panelists and attendees"

00:41:41 Stephenia Courtney: Instructional Coach

00:42:09 Rachel Smith: 6th Grade Math in Tulsa OJ

00:42:11 Rachel Smith: OK

00:42:18 catherine abbott: What does TERC stand for? Do you ever work with the Standford Univ group (Jo Boaler, Cathy Williams, et. al.)?

00:42:42 Brown Taryn: Woo hoo.....to all the Instructional Coaches!!

00:42:47 Diane Anderson: math...6th grade

00:42:53 Jacqueline Colbourne: 6th Grade Math MD

00:42:53 Gabrielle Bertrand: It should be the kids

00:42:53 Michelle Cirillo: All of us

00:42:53 Natasha Gambarov: students

00:42:54 Dave Hankin: All of us...

00:42:54 Sheila Kirton-Robbins: everyone

00:42:55 Emily Graff: Back to base 10

00:42:56 Kristin Reedal: Everyone!  
 00:42:57 Christa Charlton: all kids should be  
 00:42:59 Victoria Campbell: Everyone  
 00:42:59 Emily Kavanagh: Everyone  
 00:43:02 Jacqueline Colbourne: Everyone!  
 00:43:03 Diane Anderson: from Massachusetts  
 00:43:03 ANAIRIS DE LA CRUZ BENITO: Teachers and students  
 00:43:04 catherine abbott: Dan Meyer  
 00:43:05 Shashidhar Belbase: Mathematicians and users of mathematics  
 00:43:07 Jamie Foster: Everyone in the world  
 00:43:10 Rachel Smith: The universe!  
 00:43:16 Emily Graff: Babylonians  
 00:43:18 Justin Klinger: Anyone who attempts mathematics.  
 00:43:19 Gina Kolibab: everyone  
 00:43:19 Rodney Cooper: My Momma  
 00:43:19 catherine abbott: Yay Mirzakhani?  
 00:43:20 Tessie Menta: Everyone  
 00:43:30 Dawser Al-Adhami: Interesting  
 00:43:31 Jill Perry: This is so important.  
 00:44:21 Gabrielle Bertrand: Hear hear]  
 00:44:32 catherine abbott: Starting an argument is NOT hard in Middle  
 School. Getting them to argue about Math is the trick?  
 00:45:29 Emily Kavanagh: I agree with this  
 00:45:31 Emily Graff: Talk, share, represent, teach  
 00:45:37 Brown Taryn: Yes! @Catherine Abbot!  
 00:45:41 Gabrielle Bertrand: So has special education kids  
 00:46:20 catherine abbott: "Mathematics is one of the essential  
 emanations of the Human Spirit, a thing to be valued in an for itself, like art or  
 poetry." ~ Oswald Veblen  
 00:46:33 Shashidhar Belbase: MA for Questioning, Pondering, Reasoning,  
 and Justifying  
 00:46:43 Emily Graff: The basics of our lives  
 00:47:10 Gabrielle Bertrand: A connected, meaningful and  
 multi-dimensional mathematics experience should be a right for all students." ~ J.  
 Boaler  
 00:47:47 catherine abbott: Conjecture....like prediction?  
 00:47:49 Rebecca Flora: One of the first experiences we have at the  
 beginning of the year is how to argue in math class!  
 00:48:32 Gabrielle Bertrand: Conjecture I think is like making a  
 hypothesis based on observation and backing it u  
 00:49:06 Rebecca Flora: Noooooooo  
 00:49:11 Thomas Connolly: it would be better for conjecture to be  
 formed on the spot in my opinion  
 00:49:23 Ronald Lubatti: we are going to start eureka math next year...its  
 all prepackage is the impression I get  
 00:50:34 William Sabor: Eureka is a reasonable starting point, but if you  
 follow it by the letter, it has the same problems as any curriculum.  
 00:50:51 William Sabor: @Ronald, I encourage you to adapt it aggressively.  
 00:51:10 Gabrielle Bertrand: Kids love being devils advocate:)  
 00:51:24 Alma Miho: Conjecture is finding patterns/statements.... based

on several observations and reasonings

00:51:25 Shashidhar Belbase: Opening, Pondering, Questioning, Reasoning, and Sharing (OPQRS)-- in Mathematical Argumentation.

00:51:30 Ann Marie VanSickle: We use Eureka - it was great for helping teachers learn the standards and for launching but no program is perfect. You need to supplement with rich content like Illustrative Mathematics tasks, etc

00:51:31 catherine abbott: I was at a meeting where if an opinion was stated 3 times, people started to treat the statement as fact. Very disturbing.

00:51:49 Alma Miho: math talk

00:52:13 Jacqueline Colbourne: Accountable Math Talk

00:52:34 Anh Le: Illustrative Mathematics do a very good job with providing opps for students to make predictions, etc.

00:52:37 Dawser Al-Adhami: I like Face to face

00:52:45 Gabrielle Bertrand: LOVE Illustrative Math!!

00:52:46 Steven Jarowski: milk

00:52:47 William Sabor: microwave

00:52:48 Clarissa Rothe: mixer

00:52:49 Ann Wycoff Bagshaw: Microwave

00:52:49 Emily Graff: mop

00:52:49 Abigail Santiago: mop

00:52:49 Young Welch: mandolin

00:52:49 Amy Baniewicz: Mop

00:52:49 Brown Taryn: mop

00:52:50 Kristin Reedal: Mop

00:52:50 Jennifer Marinsky: Mop

00:52:50 Kelly Cabral: mop

00:52:50 Karen Hicks: mixer

00:52:50 Veronica Troup: microwave

00:52:50 Victoria Fain: microwave

00:52:51 Rosalind Brown: mop

00:52:51 Denise King: mixer

00:52:51 catherine abbott: mop

00:52:51 Gina Kolibab: mixer

00:52:51 Anh Le: microwave

00:52:51 Nicole Walden: microwave

00:52:51 audrey west: mop

00:52:51 Beth Seyler: mixer

00:52:51 Stacey Jackson: nop

00:52:51 Jamie Foster: Mop

00:52:51 Susan Johnson: mop

00:52:52 Rodney Cooper: mop

00:52:52 Sarah Brubeck: mop

00:52:52 Angelita Beltran: mop

00:52:52 Kim Frasher: mirror

00:52:52 dana dulzo: mattress

00:52:52 Maya Severns: microwave

00:52:52 Lisa Caudle: mattress

00:52:52 Necole Atkins-Dowd: mixer

00:52:52 Linda Baker: Mop

00:52:52 amanda Helgerson: money

00:52:52 Dave Hankin: mixer  
00:52:52 Beth Nalker: Measuring cup  
00:52:52 Christy Rose: mail  
00:52:53 Teresa Bulanda: mop  
00:52:53 Sara Kelly: mop  
00:52:53 Rene McNeal: mop  
00:52:53 Kaitlyn Maples: mop  
00:52:53 Shaylon Krautwald: microwave  
00:52:53 Asha Canty: Microwave  
00:52:53 Jennifer Smith: microwave  
00:52:53 Laura Cranmer: microwave  
00:52:54 Marie Hannon: mug  
00:52:54 Brandi Ledbetter: mop  
00:52:54 Patricia Johnston: mixer  
00:52:54 TINA LATTIMER: mirror  
00:52:54 Susan Danskin: mouse  
00:52:54 Jenn Collier: mattress  
00:52:54 Carl Soares: money  
00:52:54 Joan Albers: mirror  
00:52:54 Gabrielle Bertrand: Machete  
00:52:54 Robin Koller: microwave  
00:52:54 Kathy Felt: microwave  
00:52:55 Annette Orosco: Mop  
00:52:55 Deidra Lazard: Mixer  
00:52:55 Tanya Landry: mug  
00:52:55 Maura Czachor: mirror  
00:52:55 Jennifer Eaton: Mandolin  
00:52:56 Christa Charlton: mixer  
00:52:56 Melonie Smith: mop  
00:52:56 Loren Bentley Tammero: mixer  
00:52:56 Eric Totheroh: mustard  
00:52:56 Lotalinda Castro-Anderson: mat  
00:52:56 Ma. Lorena Aloquina: mop  
00:52:56 Darvin Best: mop  
00:52:56 Anh Le: meat  
00:52:56 Donna Misciagna: microwave  
00:52:56 Shawn Roberts: mouse  
00:52:56 Nell Thurlow: mop  
00:52:57 Mary France Imperial: mug  
00:52:57 Victoria Truman-Dooley: map  
00:52:57 Erika Hassay: mop  
00:52:57 Shashidhar Belbase: Money  
00:52:57 Janice Magauay: mirror  
00:52:57 Deidra Lazard: mop  
00:52:57 Aya Zvaigzne: mandoline  
00:52:57 Sheila Bishop: mixer  
00:52:57 Ann Marie VanSickle: mixer  
00:52:57 Kathy Austin: magnet  
00:52:58 Justin Klinger: mictrowave  
00:52:58 0edx7z: mio

00:52:58	Denise King:	microwave	
00:52:58	Noe Eugenio:	mortar	
00:52:58	Valerie Vanderport:	mixer	
00:52:58	Gloria Flores:	Microwave	
00:52:58	Katherine Rossignuolo:	mattresss	
00:52:58	Jennifer Campbell:	mildew	
00:52:59	Rachel West:	mail	
00:52:59	Brown Taryn:	mirror	
00:52:59	Dawn Lopez:	mixer	
00:53:00	Walter Shaner:	Mirror	
00:53:01	Jennifer Williams:	mask	
00:53:01	Clarissa Rothe:	mattress	
00:53:02	Darlene Tyler:	measuring cup	
00:53:02	Sheila Kirton-Robbins:	mud	
00:53:02	Lawanda Mahomes:	money	
00:53:03	peter zirnis:	MOLD!!!!	
00:53:03	Victoria Campbell:	microwave	
00:53:03	Rosalind Brown:	mat	
00:53:03	Tessie Menta:	mat	
00:53:04	Brandi Ledbetter:	mat	
00:53:04	Macobia Harris:	mop	
00:53:04	Susan Neumann:	mandoline	
00:53:04	Macobia Harris:	Mop	
00:53:04	Dawser Al-Adhami:	meat	
00:53:04	Myla Detecio:	mop	
00:53:04	Rolando II Delos Reyes:	money	
00:53:05	Deidra Lazard:	microwave	
00:53:05	George Roy:	microwave	
00:53:06	Marvin Respicio:	mat	
00:53:06	Janet Koza:	mask	
00:53:06	Ellen Metzger:	mixer	
00:53:07	Ann Marie VanSickle:	mug	
00:53:07	Sheila Bishop:	mold	
00:53:07	Gabrielle Bertrand:	mower	
00:53:07	Anh Le:	muds	
00:53:07	Shaylon Krautwald:	mask	
00:53:08	Dr. Yankey:	money	
00:53:08	Gloria Flores:	Mug	
00:53:10	Janice Magauay:	mower	
00:53:11	Brandi Gillette:	mat	
00:53:11	Corina Liu:	mug	
00:53:12	Josephine Cazares-Adams:		Mixer
00:53:12	Patti Gawronski:	mop	
00:53:12	Brandi Ledbetter:	mug	
00:53:13	Susan Shuart:	Mat	
00:53:13	Aura Rodriguez:	mop	
00:53:13	Shashidhar Belbase:	Mom	
00:53:13	Stephanie Bernabe:	mole	
00:53:13	Athalean Gee:	Money	
00:53:14	Deidra Lazard:	Mothers	

00:53:14 Linda Pritchett: microwave  
00:53:15 Dave Hankin: mincer  
00:53:16 Andrea Chew: microwave  
00:53:17 Ellen Metzger: Matcha  
00:53:17 Viragni Chand: mug  
00:53:18 Macobia Harris: mattress  
00:53:18 Victoria Simmons: metal pot  
00:53:18 dmeaney: mountain  
00:53:18 Eduardo Enjambre: Molecule  
00:53:19 Erika Hassay: magnets  
00:53:20 Stephanie Welch: Mop  
00:53:21 Bobby Flores: merlot  
00:53:21 Sara Kelly: Melon baller  
00:53:22 Ramona Quintero: masher  
00:53:22 Masooma Razzak: Money plant  
00:53:23 Rene Corrales: melons  
00:53:23 Kathleen Campbell: mutts  
00:53:23 Catherine Bronikowski: music box  
00:53:24 Marie Hannon: mushroom  
00:53:24 Sheila Kirton-Robbins: mouse  
00:53:24 Amy Tucker: MESS  
00:53:25 Rob Matyska: mask  
00:53:26 Gabrielle Bertrand: mouse  
00:53:27 Rosalind Brown: mug  
00:53:28 Rachel Smith: Modular origami  
00:53:29 Denise Smith: meat tenderizer  
00:53:32 Walter Shaner: McDonalds  
00:53:32 Sharon Black: mask  
00:53:32 Noe Eugenio: majestic mug  
00:53:32 LaDonna Allison: mop  
00:53:33 Shashidhar Belbase: Man  
00:53:37 catherine abbott: magnet  
00:53:40 Dave Becker: mop  
00:53:40 Rodney Cooper: sheets  
00:53:41 amanda Helgerson: sugar  
00:53:41 Kaitlyn Maples: scissors  
00:53:41 Rob Matyska: scissors  
00:53:41 Amy Baniewicz: Sofa  
00:53:41 Denise King: salt  
00:53:41 Loren Bentley Tammero: sink  
00:53:41 Lisa Caudle: stove  
00:53:41 Dave Hankin: stereo  
00:53:42 Clarissa Rothe: strainer  
00:53:42 Nicolette Nalu: STOVE  
00:53:42 Young Welch: scissors  
00:53:42 Stephanie Bernabe: spincach  
00:53:42 Ellen Metzger: spoon  
00:53:42 Katherine Rossignuolo: spoon  
00:53:42 Annette Orosco: soap  
00:53:42 Shaylon Krautwald: sausage

00:53:43 Kelly Cabral: scissors  
00:53:43 William Sabor: seats  
00:53:43 Brandi Ledbetter: spoon  
00:53:43 Ann Wycoff Bagshaw: Shoes  
00:53:43 Jennifer Eaton: sofa  
00:53:43 Ann Marie VanSickle: sit and spin  
00:53:43 Kristin Reedal: shoe  
00:53:43 Sheila Bishop: spoon  
00:53:43 Marie Hannon: sugar  
00:53:43 Veronica Troup: stove  
00:53:43 Loren Bentley Tammero: soap  
00:53:43 Rene Corrales: scissors  
00:53:43 Darlene Tyler: scissors  
00:53:44 Aimee Kobos: sink  
00:53:44 Anh Le: salt  
00:53:44 Carl Soares: swiffer  
00:53:44 Susan Danskin: sofa  
00:53:44 Linda Pritchett: movie  
00:53:44 Victoria Truman-Dooley: stairs  
00:53:44 Beth Seyler: spatula  
00:53:44 peter zirnis: smells  
00:53:44 Deidra Lazard: Stairs  
00:53:44 audrey west: socks  
00:53:44 Susan Neumann: sheet  
00:53:44 Tanya Landry: shampoo  
00:53:44 Victoria Simmons: sanitizer  
00:53:44 Shawnee Strachan: shirt  
00:53:45 Rachel West: stereo  
00:53:45 Janice Magauay: spoon  
00:53:45 Christy Rose: stairs  
00:53:45 JIJI JOHN: spoon  
00:53:45 Clarissa Rothe: stove  
00:53:45 Kathy Felt: sandwich  
00:53:45 Susan Johnson: salt  
00:53:45 Jamie Foster: Shower curtain  
00:53:45 Beth Nalker: scissors  
00:53:45 Rachel Smith: Swiffer  
00:53:45 Masooma Razzak: sugar  
00:53:45 Aurora Simoneau: sheets  
00:53:45 Angelita Beltran: Stove  
00:53:46 Anh Le: sugar  
00:53:46 Stephanie Welch: sauce pan  
00:53:46 Loren Bentley Tammero: shoe  
00:53:46 Emily Graff: stamps  
00:53:46 Corina Liu: soap  
00:53:46 TINA LATTIMER: sponges  
00:53:46 Myla Detecio: slipper  
00:53:46 Clarissa Rothe: spoon  
00:53:46 ANAIRIS DE LA CRUZ BENITO: Sandals  
00:53:46 Brandi Ledbetter: son

00:53:47 Necole Atkins-Dowd: salt  
00:53:47 Patti Gawronski: sponge  
00:53:47 Josephine Romero: saucepan  
00:53:47 Joan Albers: soap  
00:53:47 Gladys Montoya: SYRUP  
00:53:47 Rene McNeal: spoon  
00:53:47 dana dulzo: soup  
00:53:48 Laura Cranmer: stove  
00:53:48 Steven Jarowski: stress  
00:53:48 Macobia Harris: soap  
00:53:48 Øedx7z: stove  
00:53:48 ALEX QUYENVO: shoes  
00:53:48 Kristin Reedal: sock  
00:53:48 Abigail Santiago: sal  
00:53:48 Mary France Imperial: soy sauce  
00:53:49 Janet Koza: stive  
00:53:49 LaDonna Allison: soap  
00:53:49 Karen Hicks: salt shaker  
00:53:49 Dave Hankin: sofa  
00:53:49 Marvin Respicio: sofa bed  
00:53:49 Dr. Yankey: sugar  
00:53:49 Sara Kelly: spoon  
00:53:49 Susan Shuart: Stove  
00:53:49 Donna Misciagna: stove  
00:53:49 Sharon Black: stool  
00:53:49 George Roy: salt  
00:53:50 Dawn Lopez: sugar  
00:53:50 Anh Le: stove  
00:53:50 Linda Baker: Sofa  
00:53:50 Gabrielle Bertrand: sheets  
00:53:50 Andrea Chew: stove  
00:53:50 dana dulzo: spoon  
00:53:51 Angela Rebol: spatula  
00:53:51 Patricia Johnston: spatula  
00:53:51 Kristin Reedal: shampoo  
00:53:51 Kristin Randall: Screen  
00:53:51 Dave Becker: spoon  
00:53:52 Zorica Lloyd: Steak knife  
00:53:52 Asha Canty: Sheets  
00:53:52 Aya Zvaigzne: skabums  
00:53:52 Lawanda Mahomes: stove  
00:53:53 catherine abbott: sink  
00:53:53 Denise King: spoons  
00:53:53 Robin Koller: subway sandwich  
00:53:53 Glenda Escasinas: stove  
00:53:53 Darwin Best: soda  
00:53:53 Victoria Simmons: sanitizer  
00:53:54 Jenn Collier: sofa  
00:53:54 Kathleen Campbell: snakes  
00:53:55 Rene Stratton: swizzle stick



00:53:55 Gladys Montoya: SERVILLETAS  
00:53:55 Myla Detecio: spoon  
00:53:55 Gloria Flores: Surround Sound System  
00:53:55 Shashidhar Belbase: slate  
00:53:55 Loren Bentley Tammero: stool  
00:53:56 Ma. Lorena Aloquina: "sandok"  
00:53:56 Donna Jeck: sanitizer  
00:53:56 Karen Hicks: sift  
00:53:57 Maria Woehl: sander  
00:53:57 Sonia Calantropio: b brush  
00:53:57 Nicole Campbell: shears  
00:53:57 Catherine Bronikowski: scissors  
00:53:58 Bobby Flores: Sifter  
00:53:58 Kelly Cabral: strainer  
00:53:58 Nicole Walden: sacks  
00:53:58 Denise Smith: sink  
00:53:59 Sheila Kirton-Robbins: slaapplaats  
00:53:59 Øedx7z: stove  
00:53:59 Carl Soares: swiffer  
00:53:59 Erika Hassay: salt  
00:54:00 Jennifer Marinsky: spoons  
00:54:00 Kristin Reedal: soap  
00:54:00 Valerie Vanderport: spaghetti  
00:54:00 Carolyn Nelson: strainer  
00:54:00 Nicolette Nalu: SLOTTED SPOON  
00:54:01 Anh Le: spatula  
00:54:02 dmeaney: sheets  
00:54:02 Eduardo Enjambre: sink  
00:54:02 Emily Kavanagh: sleep  
00:54:02 Christina Hall: Shampoo  
00:54:03 Viragni Chand: sofa  
00:54:03 Rebecca Flora: sub basemebt  
00:54:03 Gabrielle Bertrand: sugar  
00:54:03 Victoria Campbell: soap  
00:54:03 Rob Matyska: scotch  
00:54:04 Ramona Quintero: sofa  
00:54:05 Sonia Calantropio: scub brush  
00:54:06 Kathy Austin: sandpaper  
00:54:06 Donna Jeck: soup  
00:54:06 Tessie Menta: stove  
00:54:06 Aya Zvaigzne: solenoid  
00:54:06 Lotalinda Castro-Anderson: stool  
00:54:07 Noe Eugenio: sauce pan  
00:54:07 Melonie Smith: soap  
00:54:08 Rolando II Delos Reyes: spatula  
00:54:08 Loren Bentley Tammero: spatula  
00:54:08 Kristin Reedal: shades  
00:54:08 Tim Sommer: spatula  
00:54:09 amanda Helgersen: sliding door  
00:54:09 Mary France Imperial: soy sauce

00:54:10 Myla Detecio: sofa  
00:54:10 Aura Rodriguez: sweeper  
00:54:11 Shashidhar Belbase: stove  
00:54:13 Jet Yeung: sky  
00:54:15 Clarissa Rothe: screwdriver  
00:54:15 Rebecca Flora: spaghetti  
00:54:16 Brown Taryn: sofa  
00:54:16 Danielle Bentley: satin pillowcase  
00:54:17 Aya Zvaigzne: solar generator  
00:54:18 Walter Shaner: Smile  
00:54:21 Teresa Bulanda: szczotka(brush)  
00:54:22 Linda Pritchett: shampoo  
00:54:31 Rachel Smith: Teresa, what language is that?  
00:54:34 Todd Smallcanyon: switch  
00:54:35 Evelyn McGhee: Sandwich spread  
00:54:40 Jet Yeung: spoons  
00:54:40 Teresa Bulanda: Polish:))  
00:54:43 Linda Pritchett: salt  
00:54:46 Rachel Smith: Love it!  
00:55:11 Nicole Walden: softener  
00:55:48 Kristin Randall: Respect  
00:55:51 Loren Bentley Tammero: All of the same  
00:55:52 Karen Hicks: accept all ideas before judging  
00:55:52 Gabrielle Bertrand: generate  
00:55:52 Susan Danskin: accept all ideas  
00:55:53 Sharon Black: openness  
00:55:53 Ellen Metzger: be generative  
00:55:54 Dave Hankin: no insults  
00:55:54 Nicolette Nalu: VOICE  
00:55:55 Victoria Truman-Dooley: SAME  
00:55:55 Kelly Cabral: be creative  
00:55:56 Linda Baker: involvement  
00:55:56 Sonia Calantropio: Listening to others  
00:55:56 Jamie Foster: creativity  
00:55:56 dana dulzo: safe zone  
00:55:57 Sheila Kirton-Robbins: fairness  
00:55:57 Ann Marie VanSickle: Listen to other's ideas  
00:55:59 Kristin Randall: Accept mistakes  
00:55:59 Victoria Simmons: consideration  
00:55:59 amanda Helgerson: accept before judging  
00:55:59 Rodney Cooper: ingenuity  
00:56:00 Tim Sommer: appropriate  
00:56:00 Emily Kavanagh: Great idea  
00:56:01 Masooma Razzak: they are the same  
00:56:01 Beth Nalker: Have fun  
00:56:02 Karen Hicks: creativity  
00:56:03 Amy Baniewicz: Don't give up  
00:56:04 Dr. Yankey: same  
00:56:04 Valerie Vanderport: flexible thinking  
00:56:05 Jennifer Williams: Mistakes create new learning

00:56:05 TINA LATTIMER: everyone can participate  
00:56:05 Jennifer Marinsky: engagment  
00:56:05 Ellen Metzger: divergent thinking  
00:56:06 Victoria Campbell: participation of all  
00:56:06 Patti Gawronski: more than one idea works  
00:56:06 Walter Shaner: Imagination  
00:56:06 Shashidhar Belbase: Variety of ideas  
00:56:06 Ma. Lorena Aloquina: collaboration  
00:56:06 Erika Hassay: Lots of correct answers  
00:56:06 Dave Hankin: constructive feedback  
00:56:07 Christa Charlton: accepting others ideas makes minds more open  
and deeper understanding  
00:56:07 Josephine Cazares-Adams: reasoning  
00:56:07 William Sabor: stronger together  
00:56:08 Ann Marie VanSickle: Look for the good  
00:56:08 Rachel West: participating  
00:56:08 Robin Koller: more than one correct answer  
00:56:11 amanda Helgerson: better together  
00:56:11 Øedx7z: its ok to mess up  
00:56:11 Brown Taryn: active participation  
00:56:12 Emily Graff: All have expertise  
00:56:17 catherine abbott: Be generative. Be creative. It's okay to be  
wrong, Say yes, and... Accept all idas  
00:56:19 Emily Kavanagh: Be accepting  
00:56:19 Lance Brauchla: polite  
00:56:20 Dawn Lopez: participation and accountability  
00:56:21 Nicolette Nalu: ERRORS ARE GOOD!  
00:56:23 Rob Matyska: reinforcing the power of small groups (four heads  
are better than 1)  
00:56:26 Jacqueline Colbourne: Creativity  
00:56:29 Linda Pritchett: openness  
00:56:38 TYRONICA CHAMBERS: FUN EMGAGEMENT  
00:56:42 Shashidhar Belbase: Effortful mistake is good for learning.  
00:56:43 Sheryl Rivera: Love ( More than 1 answer )  
00:56:46 Christina Hall: Discussing why someone might have gotten that  
answer.  
00:56:48 Nicolette Nalu: ALL FUNDS OF KNOWLEDGE ARE WELCOME AND ENCOURAGED  
00:56:49 Darvin Best: Respectful critique  
00:57:07 Donna Jeck: It's okay if you don't know so take a guess  
00:57:08 Dr. Yankey: like more than one Answer  
00:57:57 Chonda Long: Download tonight's handout at  
[https://www.nctm.org/uploadedFiles/Conferences\\_and\\_Professional\\_Development/Webinars\\_and\\_Webcasts/Webcasts/June30WebinarHandoutv4.pdf](https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June30WebinarHandoutv4.pdf)  
00:58:09 Nicole Walden: Perfect squares and their factors  
00:58:35 Julie Leckman: #Chondra Long - thank you  
00:58:41 catherine abbott: 'The square factor is the median of the  
factors listed.  
00:58:41 Amy Tucker: Squares have an odd number of factors  
00:58:42 Eduardo Enjambre: Multiples

00:58:42 Amy Baniewicz: All square numbers have an odd number of factors.

00:58:43 Ellen Metzger: The squares all have an odd number of factors

00:58:43 Tanya Landry: Each perfect square has an odd number of factors.

00:58:44 amanda Helgerson: square numbers have odd number of factors

00:58:45 Beth Nalker: odd number of factors

00:58:51 Lesly Brown: Could you repost the link to the materials for the class. i got kicked off my device for a couple of minutes, and I lost the links and the prior comments.

00:58:51 Emily Graff: 1 is consistant

00:58:54 Janice Magauay: factors of perfect squares

00:58:54 Teresa Bulanda: all numbers have factor 1

00:58:54 Gabrielle Bertrand: WHOA there is an increasing number of numbers between the squares that increase by 2!!

00:58:56 Brandi Ledbetter: first and last number are a pattern

00:58:58 Emily Kavanagh: 1, 2, 6

00:58:59 Asha Canty: The columns between each square increases by 2

00:59:05 Zorica Lloyd: Even amount of numbers between squares.

00:59:07 Victoria Simmons: perfect square numbers

00:59:10 Eduardo Enjambre: Divisibles

00:59:11 Sharon Black: All square numbers have an odd number of factors. The numbers within the prime numbers are one and itself.

00:59:11 Amy Tucker: Non squares have even numbers of factors

00:59:13 Emily Kavanagh: 1, 2, 8

00:59:14 Rachel Smith: 2,4,6,8,etc. Between the squares

00:59:17 Zorica Lloyd: Odd number os factors for all squares.

00:59:18 Teresa Bulanda: every other one has 2(even numbers)

00:59:20 Linda Baker: even numbers have more factors

00:59:23 Deidra Lazard: even amount of numbers in between

00:59:24 Robin Koller: 1 is a factor

00:59:25 Karen Hicks: They all have 1 as a factor and all of these square numbers have an odd number of factors

00:59:27 Mary France Imperial: between the green numbers are even

00:59:28 David Barnes: Download tonight's handout at [https://www.nctm.org/uploadedFiles/Conferences\\_and\\_Professional\\_Development/Webinars\\_and\\_Webcasts/Webcasts/June30WebinarHandoutv4.pdf](https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June30WebinarHandoutv4.pdf)

00:59:28 William Sabor: Conjecture: The number between  $x^2$  and  $(x+1)^2$  with the most factors is  $x(x + 1)$ .

00:59:32 Kathy Austin: Looking at distance between, it's the number between each preceding number +2

00:59:35 Dave Hankin: odd difference between each + 2

00:59:42 Nicole Walden: Perfect squares increase by a greater odd

00:59:43 Jet Yeung: 1,2, most factors

00:59:46 catherine abbott: Wow...the numbers between squares increase by 2 each time.

00:59:46 Janice Magauay: Odd number of factors for each perfect square

00:59:48 Dr. Yankey: 1,2,8

00:59:49 dana dulzo: all number have factor 1

00:59:49 Donna Jeck: all numbers have at least 2 factors

00:59:51 Maria Padiernos: 2,4,6,8,10 values between perfect squares  
00:59:51 Rebecca Flora: 19?  
00:59:54 Rosalind Brown: The numbers between each square count by 2s  
00:59:55 Christa Charlton: half just have 4 factors  
00:59:57 Darvin Best: In between each perfect square, doubles as it  
increases  
00:59:59 Mark Vasicek: 28: factors add to 29  
01:00:03 dana dulzo: prime numbers only have 2 factors  
01:00:03 Mark Vasicek: 28  
01:00:08 Stephenia Courtney: 28  
01:00:09 Craig Kiecker: A pattern exists from perfect square to perfect  
square  
01:00:09 Clarissa Rothe: Typo on the 19?  
01:00:15 Dr. Yankey: 28  
01:00:16 Linda Damianides: The number of columns between the squares is  
the consecutive evens.  
01:00:17 Rolando II Delos Reyes: prime numbers only have 2  
01:00:19 Carl Soares: non perfect squares has an even amount of factors  
01:00:29 Eunice Dimasangal: The factors include 1 and the number itself  
01:00:31 Nicole Campbell: in between each green pattern there are an  
even number of columns  
01:00:32 Brown Taryn: 1 is a factor of all numbers. There are two prime  
numbers between each two green bars.  
01:00:32 Maria Woehl: the middle number of each green column can be  
squared to get the original number at top  
01:00:32 Jennifer Smith: alternating between odd perfect squares and even  
perfect squares  
01:00:34 Rebecca Flora: what would this look like if you modelled it?  
01:00:35 Julie Leckman: All odd number of factors  
01:00:43 Donna Jeck: good catch on 19  
01:00:45 Sharon Black: composite numbers have more than more than two  
factors  
01:00:46 catherine abbott: The columns increase by two because the  
square roots increase by 1  
01:00:49 Myla Detecio: the second row of factors are all prime numbers  
01:00:50 Zorica Lloyd: Middle factor is the square root.  
01:00:50 Marie Hannon: add one to the last number in the row is the last  
number in the next row  
01:00:54 Betim Helvacı: 19 is wrong :)  
01:01:04 Nicole Walden: lol  
01:01:49 Emily Graff: sive  
01:01:55 Kathy Felt: I like that the squares were turned  
01:02:02 Teresa Lara-Meloy: Betim, thanks! (Circus bow - improv way to  
celebrate mistakes!)  
01:02:27 Lesly Brown: Thank you David for reposting the link to the  
material.  
01:02:57 catherine abbott: Sieve of Eratosthenes  
01:03:12 Rebecca Flora: I learned about Ishango bones earlier this summer in  
another webinar - never heard about it before - It is now in my curriculum!!  
01:03:17 Dr. Yankey: In what way can you teach ESOL students prime

numbers.

01:03:36 catherine abbott: How would you be able to tell if a bone was handled/made by a woman 20000 years ago?

01:04:11 Jayson Sentinellar: hello from Ph

01:05:30 catherine abbott: @Jayson....is Ph the Phillipines? Philadelphia? Pheonix?

01:05:34 David Barnes: Download tonight's handout at [https://www.nctm.org/uploadedFiles/Conferences\\_and\\_Professional\\_Development/Webinars\\_and\\_Webcasts/Webcasts/June30WebinarHandoutv4.pdf](https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June30WebinarHandoutv4.pdf)

01:05:37 Teresa Bulanda: Ishango bones were mentioned in the movie "The story of 1"

01:05:46 amanda Helgerson: I do an activity like this. Done by hand and did with GeoGebra, too

01:05:58 Sharon Black: The x values are the same and the y values are negative y from the original butterfly

01:05:59 catherine abbott: You could also do Tangrams and tranformations?

01:06:15 Emily Kavanagh: Definitely transformations

01:06:15 Janice Magauay: My students did this with patty paper

01:06:24 dana dulzo: the y coord become negative

01:06:35 catherine abbott: @Teresa I LOVE "The Story of 1"!!

01:06:45 Katherine Rossignuolo: could do it with class pad if you have access to technology

01:06:50 Gabrielle Bertrand: Is that a book or movie?

01:07:07 Stephenia Courtney: transformation

01:07:22 Julie Leckman: distance from the axis is the same

01:08:03 David Barnes: "Classpad" is an online app.

01:08:03 Sheryl Rivera: The Story of 1 is a movie. My sped kids watched from beginning to end with no interruptions.

01:08:11 catherine abbott: @Gabrielle ...."The Story of 1" is a video/movie by Terry Jones of Monty Python fame

01:08:36 Gabrielle Bertrand: Ahhh sounds like a must see!! Thanks!!

01:09:16 Teresa Lara-Meloy: Here's a geogebra activity that could be useful for some students: <https://www.geogebra.org/m/Whp4S9wE>

01:09:17 Brown Taryn: And, "Classpad" is FREE!!!!

01:09:59 Julie Leckman: Seeing the connections are critical

01:10:04 Rachel Smith: There was a great webinar about Classpad a week or two ago.

01:10:08 Brown Taryn: <https://classpad.net>

01:10:16 Katherine Rossignuolo: it was last week

01:10:20 catherine abbott: @Gabrielle....look for NOVA "The Story of Math" series with Dr. Marcus du Sautoy is narrator. He also has some great books.

01:11:10 David Meinershagen: The Story of Math is excellent!

01:11:17 Nicole Walden: I love the chat forr these groups. i so miss this in other webinars. #spoiled

01:11:18 Trena Wilkerson: ON Using ClassPAD: It's All about Connections: Let's See Why Geometry & Algebra Belong Together! (Grades 6-8)

June 23, 2020 7:00 p.m. EDT | Speaker: Karen Greenhaus

01:11:28 catherine abbott: The activity...Justify to

yourself....Justify to a friend....Justify to a Skeptic.....Jo Boaler discusses this in her Mathematical Mindset books too.

01:11:33 Gabrielle Bertrand: Thanks guys!

01:12:03 Teresa Lara-Meloy: yes on Jo Boalers ref!

01:12:39 Janice Magauay: Provide them choices to showcase their multiple intelligences

01:12:42 Emily Graff: That everyone can do math, some just don't realize it and need some nudging that they are good at it

01:12:48 Jamie Hall: Create an environment where students feel safe taking risks

01:12:49 amanda Helgerson: build relationships and trust. tell them their ideas are interesting and mean it

01:12:53 Hannah Rooney: use their work in lessson

01:12:55 Penny Hauskins: its okay to make mistakes

01:12:56 Victoria Campbell: celebrating their efforts

01:12:57 dana dulzo: modeling for students that I make sometimes too and they can correct me too!

01:12:59 Sheryl Rivera: Build Relationships

01:13:00 Danielle Leger: i allow them to solve in a manner that hey understand best

01:13:01 Dawn Lopez: small group instruction

01:13:01 Joan Albers: okay to fail

01:13:01 Clarissa Rothe: Offer choices

01:13:02 Katherine Rossignuolo: working in groups and having a say in types of assessments and assignments

01:13:02 Ellen Metzger: validate their thoughts even if they don't have the right answer – find what they contribute that is good thinking

01:13:04 Hannah Rooney: May favorite mistake

01:13:04 Gabrielle Bertrand: Dont give correct answers–have kids decide if its right

01:13:05 Skip Fennell: accepting; providing wait time; engaging individuals and groups

01:13:08 Shannen Bunoski: Turning and talking with productive partners

01:13:09 Kathy Felt: Pat them on the back for trying

01:13:10 Karen Hicks: build relationships

01:13:11 Sheila Kirton-Robbins: Let them know that "mistakes are proof that you are trying"

01:13:12 Christy Rose: story problems

01:13:15 Abigail Santiago: They create word problems

01:13:15 Dr. Yankey: small Group setting.

01:13:16 Donna Jeck: We use Notice and Wonder to start

01:13:16 Catherine Bronikowski: favorite mistakes

01:13:16 Matthew Roberts: be less "helpful"

01:13:16 Stephenia Courtney: mistakes help you learn

01:13:17 Jamie Foster: Choices that make sense to them. Allowing them to solve problems their ways with their justifications

01:13:18 Gina Kolibab: Show enthusiasm to get them excited

01:13:18 Glenda Escasinas: Errors are accepted

01:13:18 Emerlina Binuya: allow students to work cooperatively

01:13:18 Sharon Black: Create a safe environment ;  
01:13:18 Jennifer Marinsky: let students use the methods they know best  
to solve problems  
01:13:19 Linda Pritchett: learning through play  
01:13:19 William Sabor: Practice a poker face for right & wrong answers.  
01:13:19 Rolando II Delos Reyes: allow students to commit mistakes  
01:13:19 Veronica Troup: I encourage peer tutoring.  
01:13:20 Martha Atilano: estimating  
01:13:20 Rosalind Brown: Ensure that every answer has value  
01:13:20 catherine abbott: My favorite feedback from a student "Why do  
you always answer a question with a question?"  
01:13:21 Victoria Simmons: encourage participation and give praise  
01:13:21 Rebecca Flora: Did anyone else find that some students really found  
their voice when we moved online - the pressure wasn't there.  
01:13:21 Emily Graff: OK TO Be WRONG!  
01:13:23 Lesly Brown: Be positive in all you do.  
01:13:26 Rachel Smith: Every mistake is an opportunity to grow!  
01:13:27 Christina Hall: Let them know my struggles as a math learner and  
it's okay that we have struggles and mistakes are how we learn.  
01:13:28 Dawn Lopez: students create and share  
01:13:30 Robin Koller: wrong answers are okay, find out what happened  
01:13:31 Susan Danskin: don't let them off the hook when they are trying to  
explain their thinking  
01:13:32 Jayson Sentinellar: giving them opportunity to speak out what  
they have in their minds  
  
01:13:32 Karen Hicks: giving sentence starters  
01:13:35 Susan Johnson: Relationships! students as teachers/ presenters we  
work with and through each other.  
01:13:37 Laura Cranmer: incorporating art and other things they love to do  
01:13:37 Clarissa Rothe: "Famous wrong answers"  
01:13:38 Masooma Razzak: Focus on vocabulary  
01:13:38 Shashidhar Belbase: Help students make their questions and  
conjectures together.  
01:13:38 catherine abbott: Use "My favorite No" routine  
01:13:39 amanda Helgerson: encourage- encourage- encourage  
01:13:41 Karen Hicks: teaching how to build  
01:13:41 Hannah Rooney: give time for students to think  
01:13:42 Noe Eugenio: explain their thought process  
01:13:42 Sonia Calantropio: Use strong open ended questions and allow  
students time to think and then collaborate.  
01:13:43 Jet Yeung: correct their mistakes, mistakes are o.k.  
01:13:43 Brown Taryn: productive struggle.....persevere!  
01:13:44 N P: conversational moves - listening, pausing, paraphrasing,  
questioning  
01:13:45 Sheila Kirton-Robbins: allow ample wait time  
01:13:46 Gabrielle Bertrand: Record their thinking for public view  
01:13:47 Craig Kiecker: My way of doing something isn't the only way. you  
may have a different way to solve  
01:13:47 Tim Sommer: mistakes lead to correct answers



01:13:48 Dawn Lopez: think time

01:13:49 dana dulzo: letting them see me make a mistake and have them help me correct the mistake

01:13:50 Rolando II Delos Reyes: active participation of EVERYONE

01:13:53 Darvin Best: Model how to disagree.

01:13:54 Josephine Cazares-Adams: acknowledging when I make a mistake and reward whoever caught me with a piece of candy

01:14:00 Hannah Rooney: Make it a station to conjecture one day and add justification

01:14:02 Dawn Lopez: make thinking visible

01:14:04 Carl Soares: turn and talk

01:14:20 Kelly Cabral: Use mistakes as way to agree/disagree for students and to defend answers & understand it is OK to change answer.

01:14:21 Robin Koller: convincing me why they did something a certain way

01:14:22 Donna Jeck: Questioning cards

01:14:23 Ma. Lorena Aloquina: always give reasons for every answer

01:14:23 Glenda Escasinas: every answer is a good discussion

01:14:25 Myla Detecio: let them explore in class

01:14:30 catherine abbott: Wow....can you find another way to answer the question.

01:14:33 Shashidhar Belbase: Divergent thinking from a common point/question

01:14:34 Gabrielle Bertrand: posting questions kids ask

01:14:34 Emily Kavanagh: Think pair share

01:14:35 Lotalinda Castro-Anderson: Take snapshots of work and use as models

01:14:38 Todd Smallcanyon: problem solving skills use in other subjects

01:14:39 Viragni Chand: Pair share

01:14:40 Denise King: how to ask classmates for more explanation

01:14:40 Ayunda Sri Wahyuningrum: think and share

01:14:46 Robin Koller: students may make similar mistakes

01:14:49 Lai Fong Wong: explain their work or explain the work i write on the board

01:14:52 Brown Taryn: I use the incorrect responses in "My Favorite No"

01:14:56 Rene McNeal: collaboration

01:14:57 Mary France Imperial: to make them believe on themselves. it all right to make mistakes and how will this right

01:14:57 William Sabor: The "math talk" experience is helpful for building confidence in creating.

01:14:57 Martha Atilano: estimating

01:15:02 Donna Jeck: Explain your thinking usually leads to finding their mistakes

01:15:06 Vijay Parulkar: Students share weblinks to videos/worksheets/pictures (Twitter, Pinterest, other class sites)

01:15:06 Rebecca Flora: My kids love "My favorite no" - incorrect answers from work shared anonymously and all have opportunity to say why they thought the person made the mistake and how to correct it.

01:15:07 Jamie Foster: Bonus points that can be traded for "surprises" when they find my mistakes and can provide an answer to why and how can I fix it

01:15:10 Andrea Chew: allow them to justify their answer even if it's

wrong

01:15:10 Darvin Best: Allow anonymity.

01:15:19 Gabrielle Bertrand: Name their approach with their name and post it

01:15:24 Ellen Metzger: Important to give ITT (individual think time) so that they have a chance to think before one kid calls out or the one kid who thinks quickly in their group takes over

01:15:30 Ann Wycoff Bagshaw: Student Directed Center Based Instruction

01:15:37 catherine abbott: "My Favorite No" means you review what is right about wrong answers. Then correct what is wrong.

01:15:47 Kimberly Foster: Students leaving math class wanting more..develope confidence and a love of math

01:15:54 Brown Taryn: I do a lot of error analysis so students can tell me why an answer is wrong.

01:16:08 Laurie Harrell: finding what is not right in a problem ....let them catch "my" mistakes

01:16:23 Anh Le: Use what you've learned in the past, how would you solve this problem?

01:16:42 Denise Beavers: groups- talk, think, and debate

01:17:09 catherine abbott: "What does this look like? Have you seen something like this inside or outside of class?"

01:17:26 Rebecca Flora: Love the concept of student authority

01:17:30 Gabrielle Bertrand: Something like math arguing?

01:18:35 catherine abbott: Great book....MATH CURSE by John Scieszka and Lane Smith. Another Great Book....THE GIRL WHO NEVE MADE MISTAKES by Mark Pett and Gary Rubinstein

01:19:28 Chris Luzniak: Check out the hashtag #debatemath on Twitter for good examples

01:19:41 catherine abbott: GREAT SOURCE for Three Part Math Problems 101qs.com

01:19:51 Gabrielle Bertrand: There is a whole site about teaching math through books:

01:20:16 Stephenia Courtney: literature and math go hand in hand

01:20:25 catherine abbott: @Gabrielle...what is the website on teaching math through books?

01:20:32 Rebecca Flora: Distance learning is giving students who need a longer think time to put their words together more opportunities. - love FlipGrid

01:20:49 Gabrielle Bertrand: Maththroughstories.org

01:21:01 Gabrielle Bertrand: Its awesome!!!!

01:21:07 Linda Pritchett: epic books

01:21:17 catherine abbott: There are security / behavior concerns with breakout groups in Zoom meetings.

01:21:19 Danielle Leger: I like flipgrid too!

01:21:22 Deidra Lazard: @Gabrielle thank you

01:21:39 Gabrielle Bertrand: You are totally welcome!! Have fun:)

01:21:40 Patricia Johnston: Padlet works well!

01:21:43 Ellen Metzger: Danielle and Rebecca, what do you use Flipgrid for?

01:21:44 amanda Helgerson: Google meet doesn't have break out rooms and that is all we are allowed to use in our district. so I created group shared google docs to try to make something like that work

01:21:48 Myla Detecio: Thank you!

01:22:11 catherine abbott: @Gabrielle...Thanks....I will take a look after the meeting.

01:22:14 Linda Pritchett: 3 act

01:22:19 Mark Phipps: @Amanda breakouts are in the works for Meet

01:22:27 Kelly Cabral: you can do breakout rooms with google meet. I do it and the kids love them

01:22:45 Gabrielle Bertrand: @Amanda you can do google docs where the kids work in groups on the docs that you post in the chat box...I usually use last names A-C, D-M, etc...

01:22:46 Kelly Cabral: you need to have a mute extension and it works great.

01:22:58 Rebecca Flora: Flipgrid is great for kids to explain how they solved a problem but in this context - notice and wonder, making statements about the patterns they see.

01:22:59 Emily Kavanagh: Google Meet actually does. They just developed them to compete with Zoom.

01:23:03 Aya Zvaigzne: @catherine abbott Yes, breakout rooms do have a lot of concerns for some students.

01:23:04 Jennifer Marinsky: @Ellen I used flipgrid for my students to present their geometry projects during distance learning.

01:23:26 Darvin Best: There is a work-around for breakout rooms in Google Meet. Look online for ideas.

01:23:29 Ellen Metzger: Thanks!

01:23:33 catherine abbott: TODOS math is a great resource

01:23:40 Gabrielle Bertrand: could you set up google meets for groups and go between them??

01:23:44 Kathy Felt: I use flipgrid for students recording themselves explaining how they solved the problem or how they know they are right

01:23:45 amanda Helgerson: @ Emily K- oh really? Oh, I'll have to check that out! thanks!

01:23:48 Rebecca Flora: Ask kids to fins a way to show their thinking without words?

01:23:52 Gabrielle Bertrand: As an alternative to braakout rooms?

01:23:57 Mark Phipps: I saw a Chrome extension for Google Meet for breakouts

01:23:57 Anh Le: Nearpod is super useful with all the great tools!!

01:24:05 catherine abbott: Our students do use translation software to help them explain.

01:24:45 Danielle Bentley: Thanks to everyone for the resources!!!!

01:24:59 Nell Thurlow: Thank you for the very interesting and helpful presentation!

01:25:05 Gloria Flores: You can do an activity with integers

01:25:10 amanda Helgerson: Thanks, all, for the tips on breakout groups in Google meets!

01:25:11 dmeaney: Flipgrid is great for shy students to show their proficiency.

01:25:13 catherine abbott: I wish the videos of these sessions included the Chat Room. There is a lot of good information on this Chat.

01:25:15 Nicole Walden: Thx - this is my fav part of these meetings!

01:25:16 Gloria Flores: You can also do it with fractions  
01:25:24 Brown Taryn: Can't wait to get the chat transcript. I've seen some really great resources here. Thanks everybody.  
01:25:28 Christa Charlton: thx:)  
01:25:31 Sharon Laahs: Thank you!  
01:25:34 Nicole Walden: Maybe we can get a transcript of chat  
01:25:35 Rebecca Flora: math workshop or stations would work for these activities  
01:25:44 Siwi Penny: thank you!  
01:25:47 catherine abbott: How so you get the Chat transcript?  
01:25:53 Rolando II Delos Reyes: number theory was taught to us only in college. i wish it could be taught in grade school and high school. so much fun!  
01:25:55 Nicole Walden: You also just scroll down to select all - copy and paste into a doc  
01:26:02 Brown Taryn: @Nicole Walden....the chat transcript will be available tomorrow.  
01:26:09 Gloria Flores: Thank You:)  
01:26:21 Jamie Foster: The transcript of the chat is available at the same time the video becomes available  
01:26:22 Nicole Walden: thx  
01:26:34 Aya Zvaigzne: The chat transcript is usually always available the day after the video.  
01:26:38 Darvin Best: Right-click, select all, copy and paste in a doc.  
01:26:38 catherine abbott: @Taryn....thanks  
01:26:45 dmeaney: The chat room is attached in addition to the recording.  
01:26:53 Geraldine Hayden: thank you!  
01:26:56 Stephenia Courtney: Another AMAZING Webinar!!! Thank you SO much EVERYONE/NCTM!!!  
01:27:19 Rachel Smith: Ditto, Stephenia!  
01:27:32 Linda Pritchett: Thank you!  
01:27:38 Nora Marasigan: Thank you so much!  
01:27:45 Chonda Long: The recording, handout, and PDF of the presentation will be available tomorrow at [www.nctm.org/100](http://www.nctm.org/100)  
01:27:45 Brown Taryn: I always have to go back and read the chat transcript. I really appreciate NCTM making the transcripts available along with recordings of the webinars.  
01:28:02 Linda Pritchett: wonderful  
01:28:07 Ellen Metzger: Really helpful, thanks for answering my question!  
01:28:12 Brown Taryn: Thank you Chonda Long!  
01:28:17 Lance Brauchla: LOVE this topic....thanks!  
01:28:19 catherine abbott: Grade 8 certainly catch the ALWAYS / SOMETIMES / NEVER TRUE. Grade 6 takes a lot of convincing and examples to show this.  
01:28:21 Vijay Parulkar: Thank You for all the hard work put into this very informative session  
01:28:46 Jamie Foster: Great webinar. Thanks so much for sharing your expertise and what you have learned from your experiences. AWESOME evening. Thanks to all who made this possible.  
01:28:51 Gabrielle Bertrand: Low floor  
01:29:00 Viragni Chand: Thank you for the great presentation

01:29:15 Gabrielle Bertrand: Def makes math more equitable!!!  
01:29:16 Christy Rose: Thank you  
01:29:26 Daniel Irving: Thank you for this incredible presentation!  
01:29:42 Gabrielle Bertrand: AMEN  
01:29:42 Emily Kavanagh: Thank you for an informative presentation  
01:29:45 Mary Lou Vainisi: Do you think it's okay to direct students toward "math" conjectures?  
01:29:55 Ellen Metzger: I saw a fifth grade class have a great argument about whether a fraction is a number or not.  
01:30:05 Jayson Sentinellar: Very relevant and informative! Thank you so much  
01:30:24 Brown Taryn: This has been interesting. Thanks so much ladies.  
01:30:24 Ma. Lorena Aloquina: really for me "3-heads" in sharing ideas are more wonderful and much more better than one...thank you to the 3 of you. God bless  
01:30:30 Victoria Simmons: Appreciate much for sharing your expertise on this subject matter.. Math argumentation!  
01:30:46 ALEX QUYENVO: is there a place that gives us a lot of examples for finding patterns for high school level that you can share please  
01:30:48 amanda Helgerson: @ Mary Lou-  
01:30:55 Teresa Bulanda: Thank you for very informative presentation !  
01:31:08 Ana Guerrero: Thank you!!!  
01:31:10 dmeaney: Thanks for the information tonight.  
01:31:12 Anh Le: Thank you so much for another very valuable session :-)  
01:31:13 ALEX QUYENVO: thank you  
01:31:14 Teresa Lara-Meloy: Download tonight's handout at [https://www.nctm.org/uploadedFiles/Conferences\\_and\\_Professional\\_Development/Webinars\\_and\\_Webcasts/Webcasts/June30WebinarHandoutv4.pdf](https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June30WebinarHandoutv4.pdf)  
01:31:14 Myra Absin: Thank you .  
01:31:16 Veronica Troup: Thank you  
01:31:17 Teresa Lara-Meloy: Download tonight's handout at [https://www.nctm.org/uploadedFiles/Conferences\\_and\\_Professional\\_Development/Webinars\\_and\\_Webcasts/Webcasts/June30WebinarHandoutv4.pdf](https://www.nctm.org/uploadedFiles/Conferences_and_Professional_Development/Webinars_and_Webcasts/Webcasts/June30WebinarHandoutv4.pdf)  
01:31:19 Wenny Liao: Thank you very much!!  
01:31:24 Denise Beavers: Thanks!  
01:31:27 Salvador Huitzilopochtli: Thank you all!!  
01:31:29 amanda Helgerson: @ Mary Lou- Maybe you could just keep asking what else do you notice? Celebrate what they say and encourage more  
01:31:29 Maura Czachor: Thank you!  
01:31:31 Ellen Metzger: Already have it, and am excited to go back and read it!  
01:31:32 Mohamed Jamaludeen Thirapusa Mohaideen: wow  
01:31:34 Ann Wycoff Bagshaw: Thank you for your time.  
01:31:35 Victoria Campbell: Thank you!  
01:31:35 Jodi Weissman: thank you so much!  
01:31:35 Glenda Escasinas: Thank you!  
01:31:35 Gabrielle Bertrand: Thank you!! That is very generous!!  
01:31:35 Jamie Foster: Thanks so much!  
01:31:36 Leny Gaviola: thank you very much.  
01:31:36 Kendra Edwards: thank you  
01:31:37 Lai Fong Wong: Thank you!

01:31:39 Angelita Beltran: Thank you!  
01:31:39 Jennifer Eaton: Thank you!!  
01:31:42 Lelia-allison Tsui: Thank you for the wonderful info.  
01:31:42 Tanya Landry: Nice! Thanks!  
01:31:43 Joan Albers: Thank you!  
01:31:43 Deidra Lazard: Thank you, this was very interesting information  
01:31:45 Hannah Rooney: Thank you!  
01:31:45 Christa Charlton: thx  
01:31:50 Kristin Randall: Thank you!  
01:31:51 Macobia Harris: Thank you  
01:31:52 Josephine Romero: Thank you.  
01:31:52 Trena Wilkerson: Thank you! Great session and wonderful ideas  
shared by participants as well.  
01:31:54 Patti Gawronski: Thank you!  
01:31:54 Walter Shaner: Thank you very much!  
01:31:54 Valerie Vanderport: Thank you  
01:31:55 Ma.Cecilia Cueva: Thank you so much.  
01:31:56 Dave Hankin: Thank you again from Globe, Arizona!  
01:31:56 Rebecca Flora: Love the poster that comes with the book! My kids  
made their own version with examples  
01:31:58 Andrea Chew: Thank you!  
01:31:58 Amy Baniewicz: Thank you so much!  
01:31:59 Sheila Bishop: Thank you!  
01:31:59 Jenn Collier: Thank you all! I already own the book so I'm even  
more excited to dive in now!  
01:32:01 Tessie Menta: Thank you  
01:32:02 Dawn Lopez: Thank you so much for an excellent session.  
01:32:02 Mary France Imperial: Another WONDERFUL session. I really love  
attending NCTM webinars. It's already part of my daily routine. Learning a lot and  
new ideas. Thank you very much everyone and NCTM  
01:32:02 Ellen Metzger: Thanks so much!!  
01:32:04 Danielle Leger: thank you all for sharing your wisdom!  
01:32:05 dana dulzo: thank you very much  
01:32:05 Victoria Truman-Dooley: Thank you  
01:32:08 Donna Jeck: Thank you! have a great night!  
01:32:08 Linda Pritchett: Thank you wonderful presentation.  
01:32:11 Carl Soares: Thank you Very much!!!  
01:32:11 HILARY OMOKAFE: Thank you.  
01:32:13 Abigail Santiago: Thank you!  
01:32:15 Teresa Lara-Meloy: Thank you all!! This was fun!  
01:32:15 Linda Damianides: Thank you!  
01:32:15 Myra Absin: Thank you very much.  
01:32:15 amanda Helgerson: Thank you  
01:32:15 Shashidhar Belbase: Thank you very much for nice discussion.  
01:32:16 Shannen Bunoski: Thank you SO much EVERYONE/NCTM! Amazing and  
informative webinar!  
  
01:32:16 Masooma Razzak: Great presentation!  
01:32:18 Sonia Calantropio: That was great! thank you.  
01:32:18 Rolando II Delos Reyes: Thank you so much NCTM! Hoping we can use

this with our students! PH

01:32:20 Ayunda Sri Wahyuningrum: thank you so much! great presentation!

01:32:21 Susan Shuart: Thank you

01:32:22 Tessie Menta: Thank you so much

01:32:24 Harold Miles: Thank you

01:32:25 Jacqueline Colbourne: Thank you

01:32:26 Jet Yeung: thank you for all your skills and informations

01:32:28 Sharon Black: Thank you so much for sharing your knowledge with us.

01:32:30 Tim Sommer: Thanks so much!!

01:32:30 Beth Nalker: Thank you!

01:32:30 Emerlina Binuya: Thank you!

01:32:33 Justin Klinger: Thank you,

01:32:34 catherine abbott: Thank you so much. Great session.

01:32:42 Aya Zvaigzne: Thank you very much!

01:32:43 Dr. Yankey: Thank you very much

01:32:43 Ken Rafanan: thanks everyone.

01:32:51 Kathy Felt: Thank you!

01:32:52 Vanessa Stokes: thank you!!

01:32:58 Danielle Grenader: Thank you!

01:33:09 Monica Roland: Thank you!

01:33:14 Lawanda Mahomes: Thank you!

01:33:18 LeAnna Deveaux-Miller: AWESOME PRESENTATION....THANK YOU ALL

01:33:29 Rodney Cooper: Thank you!

01:33:37 TYRONICA CHAMBERS: Thank you so much. Great presentation!

01:33:42 Pamela Brock: Yes, yes - Thank you all :)

01:34:01 Ramona Hall: Thank you!

01:34:05 Maria Woehl: Thank you ladies :)

01:34:09 Jorge Veloso: Bye bye.

01:34:18 Shashidhar Belbase: Thank you very much for nice discussion !

01:34:21 Maral Aznavour: 🙌

01:34:24 Myla Detecio: Thank you!

01:34:29 Robin Koller: very helpful and informative! Thanks for the discount

01:34:29 Maral Aznavour: thanks!

01:34:34 Susan Danskin: Thanks

01:34:37 Pamela Goodwin: thank you!

01:34:44 Jocelyn Gabrinao: thank you!

01:34:46 Athalean Gee: Appreciate great presentation!

01:34:50 Rebecca Flora: one of the best so far~

01:34:54 Linda Baker: thank you!

01:34:54 Angelica Contreras: Thank you!

01:34:57 Michelle Cirillo: Thanks!

01:35:01 Arnold John Bulanadi: Thank you!

01:35:04 Dawser Al-Adhami: That was interesting

01:35:06 Ellen Metzger: Me too!

01:35:09 Dawser Al-Adhami: thanks

01:35:15 Michelle Cirillo: Buying the book now!

01:35:16 Olga Kosheleva: Thank you!

01:35:19 Darwin Best: Thank You All!  
01:35:22 Angela Rebol: Great job - thank you!!!  
01:35:26 Janice Magauay: Thanks!  
01:35:34 Myra Absin: Great presentation. Thank you.  
01:35:38 Jayson Sentinellar: til next time!  
01:35:38 Chonda Long: Thanks everyone, see you tomorrow!