

00:14:06 Konnie Guthrie: Good afternoon from Las Vegas.  
00:14:06 Chonda Long: Welcome!  
00:14:15 Deborah Chapdelaine: Hello from Edmonds WA  
00:14:16 Gloria Flores: Hello from Texas  
00:14:16 Kristin Asa: Good afternoon from Las Vegas as well!  
00:14:18 Robert Berry: Hey Pat  
00:14:18 C Robertson: Hello from Reno  
00:14:19 Faith Peddie: Hi everyone! Welcome to tonight's webinar.  
00:14:19 Amy Tucker: Hello from Wayne, Maine! :)  
00:14:19 Michelle Webb: Good Evening from TN  
00:14:24 Anne Schmidt: Hello from Lincoln, Ne  
00:14:24 Olga Kosheleva: Hello from El Paso, TX  
00:14:25 Stephanie Caragher: Hello from NH  
00:14:25 Trena Wilkerson: Hello from Waco, Texas!  
00:14:28 Laura Warrington: Hi from Reston VA!  
00:14:28 Michelle Silvia: Hi from New Hampshire  
00:14:30 Bernabe Avila-Cortez: Good Afternoon from Toppenish WA  
00:14:31 Sabrina Orta: Hello from Arizona!  
00:14:32 Shannon Wall: Hello from Asheville, NC  
00:14:32 Laura Thomas: Hello from Athens, GA  
00:14:32 Christina Siow Young: Hi from Monrovia, CA  
00:14:33 Jaclyn Murray: Hi from Atlanta, GA.  
00:14:34 Jennifer Love: Hello from Bloomington, IL  
00:14:37 Emily Mazur: Hello from Columbus, OH  
00:14:37 Necole Atkins-Dowd: Good Afternoon from Las Vegas!  
00:14:37 Angela Ford: Hi from Hendersonville, NC  
00:14:38 Clarissa Rothe: Clarissa from Daly City, California  
00:14:39 Trent Thomason: Columbia, TN  
00:14:40 Juanita Thomas: Hello from Phoenix, AZ  
00:14:40 Beth Snoop: hi from holland michigan!  
00:14:42 Danielle Barberi: Hi from just north of New Orleans, LA!  
00:14:42 LAKESHA MILLER: Hello from Eunice, LA  
00:14:42 Beverly Krumpe: Hello, from Paris, TX  
00:14:44 Heather Ruiz: San Antonio, Tx here!  
00:14:45 Louanna Mootoo: Hi Cathy... It's Louanna :)  
00:14:46 Sandra Silva: Hello from West Springfield MA  
00:14:49 Courtney High: Hello from Southeastern Wisconsin! 🤝  
00:14:50 Ethan Smith: Hello from Newark, DE!  
00:14:51 Joyce Meier: Hello from Crystal Lake, IL!  
00:14:53 Daniel Irving: Hello from North Providence, RI.  
00:14:55 Kay Wohlhuter: Hi from Duluth, MN  
00:14:56 Marissa Bay: Hi from Chicago, IL!  
00:14:56 dana dulzo: hi from novi mi :)  
00:14:56 Priscilla Galliano: Hi everyone from just outside of New Orleans, LA!  
00:14:57 Skip Fennell: Hello from Westminster, MD  
00:14:58 Polly Kimminau: Hello from Tucson Arizona  
00:14:58 Marissa Elizardo: hello from West Chester, PA  
00:14:59 Robert Berry: Hey Pat. How are you?  
00:15:00 Nora Chase: Hi from Scottsdale, Arizona

00:15:01 Sherry \*Bovey: Greetings from central Louisiana.  
00:15:01 Eva Gomez: Hello from Phoenix, AZ  
00:15:10 Alma Vital-Abers: Hello from Tempe, AZ  
00:15:11 Kelly Ward: Hi, from Angelina National Forest, Deep East Texas!  
00:15:12 Gabby Trojanowski: Hi from Toledo, OH!  
00:15:17 Christina Hall: Hi from Yuma, AZ!  
00:15:19 Lindsay Armstrong: Hi Lindsay from Ohio  
00:15:19 Dawn Lybarger: Hello from Delmar, Maryland!  
00:15:19 Rebecca Breiner: Hello from Sykesville, MD  
00:15:20 Kelley Nelson: Hello from Kuwait.  
00:15:25 Pamela Goodwin: Hello from Middlesex, NJ  
00:15:25 Tunisia Waller: Maryland  
00:15:27 Teresa Bulanda: hello from Hartford,Connecticut  
00:15:28 kathy kansky: Hi-kathy from NJ  
00:15:37 Aya Zvaigzne: Nashville, TN  
00:15:39 Jan Back: Hello from Jan Back in Hampton, Tennessee!  
00:15:42 Zahra O'Reilly-Bates: Hi from St. Croix, U.S. Virgin Islands  
00:15:44 Kerrie Becker: Hello from Palmyra, PA  
00:15:50 Erica Roszler: hey from ohio  
00:15:51 Kristin Messenger: Hello from Las Vegas!  
00:15:52 Tracey Sweeney: Hello from Arizona!  
00:15:54 Katherine Garcia: Hi from Farmville, VA  
00:15:59 Michelle Fogarty: Michelle from sunny Arizona  
00:16:00 April Shelton: Hello from Crab Orchard, TN  
00:16:03 Jennifer Heldenbrand: Hello from Provo, Utah!  
00:16:07 Jenny Sagrillo: Hello from Milwaukee  
00:16:08 Lorna Randle: Hello to everyone.  
00:16:10 Jolene Peterson: Hello from Kansas!  
00:16:11 Dane Dwyer: Hello, from Wiscasset, Maine  
00:16:11 Katherine Klauck: Hello from Niagara, Canada!  
00:16:12 Lorna Randle: From Houston, TX  
00:16:14 Mathilde Lanzel: Hi everyone, I'm a middle school special  
educator/small group math teacher from Sharon Massachusetts  
00:16:17 Chonda Long: Great shirt!  
00:16:27 Annette Holloway: Hello from Murfreesboro, TN!  
00:16:29 Sharon Black-MacKinnon: New Brunswick, Canada  
00:16:35 Essence Brice: Hello EVERYONE from Mobile, AL!  
00:16:39 Ada Feliciano: Hi from Dudley, MA  
00:16:44 Melissa Scroggins: Hi from Melissa Az  
00:16:44 Tess Wilson: Hello Bardstown, Ky  
00:16:48 Emily Kavanagh: Hi from Columbia, MD  
00:17:00 Zoe Stokes: Hello from Bowling Green, OH  
00:17:01 Stephenia Courtney: Hello from Las Vegas, NV  
00:17:12 Ellen Metzger: Hi from Newton, MA  
00:17:21 Julie Benotti: Hello from Massachusetts  
00:17:24 Gary Stewart II: Hi from Oceana, WV  
00:17:24 Mirasol Laberinto: Hi Mirasol Laberinto from Phoenix Arizona  
00:17:24 David Barnes: Welcome from Northern VA!  
00:17:25 Wendy Kraft: Hi from WA  
00:17:26 JAcky Rodes: hello from VA

00:17:31 Michael Minchella: Hello from Toronto!  
00:17:35 Susan Balcerski: Hi from Ocean County, New Jersey!  
00:17:37 Kevin Tran: 안녕 Bowling Green, OH

00:17:42 Reyce! Pacaan!s: Hi from Shiprock NM  
00:17:45 Penina Kamina: Hello from NY  
00:17:47 Jamie Greifenberger: Hi from NJ  
00:17:49 Helene Alalouf: NYC here  
00:17:49 Robert Berry: Robert Berry Charlottesville, VA  
00:17:52 Teresa Bulanda: What is the view behind you? Mt Washington,NH?  
00:18:02 Aaron Ginsburg: Hello! Westchester, NY.  
00:18:02 Chi-Man Ng: Hello from New Jersey, teaching in NYC  
00:18:03 Nellie Alvarez: Nellie Alvarez from Goodyear Az  
00:18:12 Suzanne Smith: Suzanne Smith, Mississippi  
00:18:21 Jeff Shih: Hi from Las Vegas  
00:18:25 Sharon Ling: Hi from NJ!  
00:18:36 Candle Hudson-Oden: Candle Oden Chicago. IL  
00:18:41 Cindy Luper: Hi from Arkansas  
00:19:02 Agus Salim Mardin: Hi from indonesian..!!  
00:19:06 Prerana Sanghavi: Hello from Mumbai, India  
00:19:06 Daniel Seif: from Bensalem PA  
00:19:14 Gordon Clark: Hello from Midcoast Maine!  
00:19:34 Leanna Foreman: Are we all automatically muted? I can't find the  
button to make sure  
00:19:36 Audrey Campbell: Hi from Waldorf, MD  
00:19:43 Samantha Bustos: Hello from Collierville, TN!  
00:19:53 Gary Stewart II: i can't find the mic button either  
00:20:00 David Barnes: Welcome to our colleagues from Indonesia and India  
and Canada!  
00:20:01 Samantha Bustos: I believe we are all muted or else we'd all  
hear each other  
00:20:06 Elizabeth Devereaux: Hello from Walnut Springs, Texas!  
00:20:20 David Barnes: Yes, everyone is muted.  
00:20:23 Mathilde Lanzel: Can we get the powerpoint?  
00:20:38 Nicole Rigelman: Hello from Portland, Oregon  
00:21:04 David Barnes: Things will be posted tomorrow.  
00:21:13 Mohamed T: Hi. This is Mohamed.  
00:21:32 J Michael Shaughnessy: HI Nicole!  
00:21:42 Mathilde Lanzel: posted where?  
00:21:43 Robyn Headifen: kia ora from new zealand  
00:22:03 Lorie Huff: Hello from Fayetteville, Arkansas  
00:22:12 David Barnes: Vivian, did you have a question?  
00:22:27 Latasha Bryant: Hello from Hendersonville, Tennessee  
00:22:51 W Tad Johnston: It would be interesting to have some examples of  
what go in the other sections of the Venn  
00:23:04 J Michael Shaughnessy: Hello Robin in NZ!  
00:23:18 J Michael Shaughnessy: Hi Anne Gallagher!  
00:23:20 Jorge Veloso: Hi. This is Jorge from Angola.  
00:23:29 David Barnes: @Tad - That might be a good question for MyNCTM.  
00:23:44 Faith Peddie: Hi Everyone, please make sure that you are sending

messages "To: Everyone (in Meeting)"

00:24:00 Denika Gum: Woops!

00:24:05 David Barnes: @Tad - That might be a good question for MyNCTM.

00:24:12 J Michael Shaughnessy: Hi Robin and Anne!

00:24:17 Pamela Stark: I love this!

00:24:19 Amy Rushall: @Mathilde Lanzel:

<https://www.nctm.org/100-Days-of-Professional-Learning/>

00:24:27 Ruchi Arora: Hi. This is Ruchi Arora from India.

00:24:32 Mathilde Lanzel: thank you

00:24:32 Monica Roland: Good evening from Savannah Ga

00:24:35 J Michael Shaughnessy: Hi Nicole.

00:24:37 Patricia Sells: Not clear

00:24:42 David Barnes: Welcome Ruchi!

00:24:43 Ashley Haszko: Hi, Ashley from New Jersey

00:24:52 Amy Tucker: Hi, again, Tad! Good question! :)

00:25:06 Alicia Kaplan: Hello Alicia from New York, New York

00:25:16 Tim Filipovich: Youngstown Ohio!

00:25:23 Stephenia Courtney: Love Talk Prompts

00:25:24 Cathy Chaput: Hi from just a little way outside of Toronto (I sent this before but only to panelists!)

00:25:43 David Barnes: @Patricia, What is not clear?

00:26:11 Herminio Planas: Great diagram

00:26:11 Judith Noneman: Good afternoon from Chandler, Arizona

00:26:28 Sherita Wells McMillian: Hello from Alabama!

00:26:35 Elizabeth Chapman: (I did the same) hey from NC

00:27:00 Lauren Gill: I love this

00:27:02 Polly Kimminau: So much depends on the problems presented to students

00:27:03 Robin Tucker: Special Ed students usually are all B or C

00:27:03 Patricia Sells: Hi, from Phoenix, AZ

00:27:05 David Barnes: @Tracy, You need to change T0: in chat to include the attendees.

00:27:08 Leanna Foreman: That is wonderful!

00:27:23 Lauren Gill: doing a lot of work on problem solving and this fit right in

00:27:32 April Shelton: This would be a great way to start the year to help build a community classroom.

00:27:43 Abigail Pratt: Love that this should be explicit for students! They need to be okay with productive struggle!

00:27:51 Tracy Pinter: hey @Tim!

00:27:56 Emily Kavanagh: These diagrams are a great representation

00:28:12 Mark Phipps: The TEETER!!

00:28:31 Tim Filipovich: Hi Tracy!

00:28:44 Christina Siow Young: This is great for the beginning of the year message.

00:28:51 Mark Phipps: It does look a little like me drawing a number "2" with my touch pad

00:29:03 David Barnes: @Alicia - the video will be posted tomorrow at [www.nctm.org/100](http://www.nctm.org/100)

00:29:04 J Michael Shaughnessy: There will be a recording of the presentation. The slide reminding of the link will again be presented at the end.

00:29:08 Shelida Lee: @Christina.. I agree

00:29:25 Kelly Ward: @Mark--or trying to sign my name with my mouse!

00:29:26 Sharon Black-MacKinnon: haha @Mark Phipps I can relate

00:29:29 Melissa Luzano: LOL @Mark

00:29:35 Mary Anne Opila: so important for the students

00:29:45 Jeff Koenig: Hello from CA

00:29:57 Nellie Alvarez: will there be a handout

00:30:25 Lauren Gill: I find students can learn self-talk by talking it out with the teacher and transferring that to self-talk

00:30:53 Erina Smith: Many students can relate their experience as athletes. I like that aspect.

00:30:58 Sherita Wells McMillian: Lauren, I agree!

00:31:11 Jeff Koenig: Good point, Lauren G. How does that conversation take place?

00:31:44 Annette Holloway: It is imperative to model self-talk, especially when you "make mistakes" so that students see that everyone makes mistakes and it gives them an example of how to persevere even when you make a mistake!

00:32:06 Gabby Trojanowski: I love that the student imagined a crowd! That's awesome!

00:32:06 Monica Roland: Agreed Annette

00:32:17 Courtney High: Classic answer of our generation "IDK". I see that so often nowadays.

00:32:21 Lauren Gill: "read the question to me" , what do you know", what are you thinking", then tell them explicitly that they can pretend they are talking to me if I am not there.

00:32:41 Jeff Koenig: I believe that students self-talk a lot more than you would think. The problem is that too often it is negative. Reframing is key

00:32:47 Mark Phipps: I try to get them to hear a voice (like mine) asking them questions to guide them. I ask similar guiding questions until they cannot get my voice out of their head....

00:32:52 Denise Quarles: Cool! Think alouds in math!

00:33:46 Lorna Randle: I do this. It works well especially when you model it first and then allow them to begin constructing their own think aloud strategies.

00:33:52 Kelly Ward: I model my self-talk when I solve problems with students, and I've always told students to pretend to hear my voice as they work through problems--I'm realizing now I was usurping their right to credit their own thinking. Changing that now!

00:33:59 Elizabeth Chapman: I love think alouds and have been using them for years, it does help those struggling learns so much!

00:34:35 David Barnes: @Carly - Did you have a question?

00:34:42 Emily Kavanagh: I model self-talking with my students also

00:34:48 Clarissa Rothe: How do you use these strategies during distance learning and "self-paced" type of environment?

00:35:44 Teresa Bulanda: we used this activity with describing different types of graphs....

00:35:47 Elizabeth Chapman: I do the google meets with my students to go

over our work and I use it through that. I am going to start recording them so I can post for those that are online when I am

00:35:54 Julie Taylor: 3 squares and 4 identical triangles.

00:35:55 Christina Baldy: There are two equilateral triangles in the middle that are touching on the vertex

00:35:58 Juanita Thomas: I model self talk, but I'm always looking to perfect this skill.

00:35:58 Jamie Greifenberger: Halfway mark

00:36:01 Michelle Silvia: How many shapes are given in the activity?

00:36:03 Penina Kamina: Animal made of triangles and squares

00:36:04 Lauren Gill: above, below

00:36:04 Shelida Lee: 2 triangles side by side

00:36:04 Gabby Trojanowski: The design is made up of four equilateral triangles and three squares.

00:36:06 Robyn Headifen: start in the middle of the page

00:36:06 Kristine Matheson: I would use shapes, angles, lengths, parallel, location on page

00:36:07 Jacky Rodes: two equilateral triangles side by side, with the bottom vertex touching

00:36:07 Jamie Greifenberger: turn a number of degrees or to a point on the clock

00:36:09 kathy kansky: I would start with equilateral triangles

00:36:09 Elizabeth Ruiz: In the center of your paper draw two equilateral triangles pointed up with one corner touching each other.

00:36:10 Leanna Foreman: There are four triangles, only three are touching.

00:36:11 Sherry \*Bovey: There are three squares and 4 triangles.

00:36:11 Mary Anne Opila: start with two equilateral triangles

00:36:11 Prerana Sanghavi: draw 2 triangles connected to each other

00:36:13 Polly Kimminau: a mountain with two peaks

00:36:13 April Shelton: In the right hand corner there looks like a house has feel down

00:36:13 Lisa Hurst: You will be drawing a series of shapes

00:36:14 Gloria Flores: 3 squares, 3 triangles

00:36:15 Michelle Silvia: Do they draw it?

00:36:19 Mark Phipps: Get four equilateral triangles and three squares

00:36:21 Lindsay Armstrong: How long do you give students to describe the picture?

00:36:21 Lisa Hurst: start with a square

00:36:21 Lorna Randle: There are two different geometric figures. One is a three squares and four triangles

00:36:23 David Drembus: in the center of a large white square, start with two equilateral triangles next to each other.

00:36:23 Aya Zvaigzne: It requires that the students have the vocabulary to describe this, and understand the other person

00:36:24 Deborah Chapdelaine: a jumble of 3 squares and 4 equilateral triangles

00:36:24 Jacky Rodes: square on top of left triangle placed in the middle

00:36:25 Lauren Gill: beside, hanging off the corner

00:36:26 Patricia Sells: 4 triangles and 3 square

00:36:28 Michelle Bourgeois: can we make a house with these?  
00:36:30 Jeff Koenig: four triangles and three squares arranged around the  
page  
00:36:32 Leanna Foreman: There are three squares, none of them are touching  
00:36:32 Penina Kamina: A dog  
00:36:33 Denise Quarles: Hard to avoid "looks like"  
00:36:34 Robin Tucker: +2 3 squares and 4 triangles  
00:36:34 Julie Taylor: can use quadrants to help place the shapes  
00:36:36 Louanna Mootoo: 3 congruent triangles  
00:36:37 Kerrie Becker: there are a total of 4 equilateral and congruent  
triangles and 3 congruent squares. you'll make a figure with 7 composite pieces  
00:36:38 Sharon Ling: 3 squares and 4 triangles  
00:36:39 Pamela Gavina: draw two equilateral triangles next to each other  
00:36:41 W Tad Johnston: There are two equilateral triangles touching at a  
point with bases parallel to the bottom of the picture  
00:36:52 Pamela Goodwin: There are 4 equilateral triangles, three squares  
00:36:52 Kerrie Becker: might picture front of dog with tail up in back  
00:36:55 Reyce Pacaanas: 4 triangles and 3 squares  
00:36:56 David Barnes: @Clarissa - you could pair students up in breakout  
rooms and one student access a google document with the image  
00:37:02 Allie Smith: 7 shapes - 3 square, 4 triangles, use quadrants to  
places each where they need to go  
00:37:04 Teresa Bulanda: looks like dog the body is two triangles the head is  
a square the legs are...  
00:37:07 Robyn Headifen: draw 2 equilateral triangles with the points at the  
top at point of the left hand triangle draw a square with the sides the same length  
as the base of the triangle.....  
00:37:07 Tim Filipovich: 3 Squares with 4 triangles touching each other at  
points except one with a line.  
00:37:08 Michelle Silvia: 7 shapes created with 4 congruent triangles  
and 3 congruent squares  
00:37:11 Christina Siow Young: Put two equilateral triangles in the middle.  
They are touching at one vertex each triangle.  
00:37:18 Naomi Church: For distance learning this would be a great image to  
put in a discussion and have students try to describe it as their discussion post.  
00:37:24 Stephenia Courtney: 3 squares and 4 triangles  
00:37:27 Mark Phipps: use of the word midpoint and centered and base would  
be cool in this  
00:37:31 Karin Keener: 4 triangles and 3 squares all touching.  
00:37:41 Patti-Jo Lacey: Are these types of visual activities in your newest  
book?  
00:38:10 Stephenia Courtney: each shape is connect only to one other  
shape  
00:38:10 Denise Quarles: Lots of cool activities like this for collaborative  
work here: <https://nrich.maths.org/>  
00:38:23 Jorge Veloso: That's a good exercise towards diversity of  
thinking!  
00:38:34 Mark Phipps: Go Blue  
00:38:39 Ruchi Arora: nice activity  
00:38:41 Clarissa Rothe: Thanks, Naomi!

00:38:43 Mark Phipps: Hail  
00:38:45 Gloria Flores: two triangles linked together by a vertex  
00:39:05 Aya Zvaigzne: This is an excellent way for students to learn how to talk about graphs and functions.  
00:39:06 Jeff Koenig: Surfacing student thinking/perspective without fear of being wrong or judged  
00:39:20 Lauren Martin: Liked, "two triangles linked together by a vertex"  
By Gloria F.  
00:39:22 Annette Holloway: @Jeff Koenig agreed  
00:39:30 Jeff Koenig: Lots of SMPs represented here  
00:39:43 W Tad Johnston: Is this a start or an advanced exercise for the description?  
00:39:50 Stephenia Courtney: Go Blue!  
00:40:12 Ashley Haszko: Vocabulary is so important especially for my students who are 2 -3 grade levels behind  
00:40:13 Jeff Koenig: WODB, Notice & Wonder, etc.  
00:40:37 Annette Holloway: YES! Love WODB!  
00:40:43 Tara Maynard: Can have student sit with their backs to the front of class and partner facing front. Works great!  
00:41:00 Courtney High: My district pushed "Number Talks" this year. It has some really similar talk aloud activities.  
00:41:02 Jeff Koenig: @tara Good calrification  
00:41:06 Tim Filipovich: O-H-  
00:41:32 W Tad Johnston: I don't keep PB in the fridge  
00:41:36 Robin Tucker: What is WDOB  
00:41:38 kathy kansky: @Courtney- my district did also... Number talks  
00:41:43 Jeff Koenig: It's about the discourse within as all onramps are good.  
00:41:56 Ellen Metzger: I'm trying to think about how to do this in a live online lesson – maybe email one student the diagram and then have the class try to draw that student's description...  
00:41:57 Tara Maynard: WODB = which one doesn't belong  
00:42:02 Michelle Silvia: which one doesn't belong  
00:42:03 Kelly Ward: It wouldn't matter where I store the PB; my husband couldn't find it! ;)  
00:42:07 Robin Tucker: thx  
00:42:07 Michelle Silvia: WODB  
00:42:12 Tara Maynard: Check out wodb.ca  
00:42:34 Jeff Koenig: Make sure that "we did this" doesn't cause its own limitation as if it is a checkbox to clear rather than deeper implementation  
00:42:43 Johannah Wirzba: I love WODB!  
00:42:45 Shelida Lee: Love manipulatives!!!  
00:42:51 Shannon White: I also use number talks. Those are focused on mental math, though (operations), not the same as this discourse, but just as valuable.  
00:42:55 Mary Anne Opila: magnetic... great  
00:43:26 Mark Phipps: There is a site with electronic versions of these manipulatives that might work in our current environment  
00:43:39 Jeff Koenig: Other resources for number talk, notice/wonder/think aloud: 101Qs, Robert Kaplinsky, Fawn Nguyen, YouCubed  
00:44:06 Christina Baldy: You are giving directions but not why you



made those decisions.

00:44:06 Lindsay Armstrong: This isn't sharing thinking it's sharing what is being done

00:44:08 Kristin Asa: Non example because just describing how you are going to state the directions

00:44:10 Grace Vaught-Smith: This is describing what you're doing not what you're thinking

00:44:10 Kelly Ward: It's saying what they will do.

00:44:10 Teresa Bulanda: no specific

00:44:10 Kristin Asa: not what you are thinking

00:44:10 Natasha Jean-Louis: Procedural heavy

00:44:11 Lauren Martin: You read the directions

00:44:11 Elizabeth Chapman: it tells what to think not what they are thinking

00:44:12 Gabby Trojanowski: It's just an overview of the process, not what the person was thinking as they were doing it

00:44:13 Erina Smith: You are explaining your thoughts

00:44:14 Lorna Randle: This is not a think aloud because it is giving directions

00:44:14 Lauren Gill: not actuactlly describing it

00:44:14 Jorge Veloso: Because it is quite linear

00:44:15 Laura Ramp: It's just a list of steps - not a lot of thinking.

00:44:17 W Tad Johnston: It's just the steps and not how you are thking about the steps

00:44:17 Herminio Planas: There is no process to it. Not solving anything

00:44:18 Mary Anne Opila: so many steps

00:44:20 Courtney High: No student thinking present

00:44:20 Louanna Mootoo: There are no wonderings

00:44:21 Lisa Hurst: The "I'm not sure where to start" is absent

00:44:23 Denise Quarles: You are describing your actions not how you are going about breaking up the problem

00:44:27 Clarissa Rothe: whoa

00:44:27 Gordon Clark: solves the problem. It doesn't describe the thining process,

00:44:31 Jorge Veloso: It is linear thinking

00:44:41 Jorge Veloso: that's why

00:45:04 Patricia Sells: why thinking

00:45:52 Elizabeth Devereaux: Very helpful!

00:46:05 Karen Klie: That example helped a lot!

00:46:09 Judith Noneman: Mavis Beacon :)

00:46:12 Mariangeli Rivera: awesome resource

00:46:20 Lauren Gill: the struggle is real, even for adults

00:46:23 Jeff Koenig: I agree. Good example to clarify

00:46:31 Jorge Veloso: Not linear thinking now

00:46:32 Jamie Bacon: Great Example

00:46:38 Kelly Ward: Do you ask students to write these down or say them out loud?

00:46:53 Annette Holloway: I love that this models for the students to ask themselves questions while they are thinking

00:46:54 Jorge Veloso: Not a linear thinking now. It's a good example for that.

00:46:57 Gabby Trojanowski: I love how sharing self-talk humanizes teachers.

00:47:01 Courtney High: Kelly, I think doing both can be helpful. Think, ink, pair, share sort of thing.

00:47:03 Jeff Koenig: There's a real emotional component. Less logic, more shared feelings

00:47:14 Lauren Gill: do not write it out that kills it for students

00:47:16 Erina Smith: I agree Jeff, it's very personal dialog

00:47:23 Shelida Lee: It's an awesome slide

00:47:31 Mary Anne Opila: impressive

00:47:38 Kerrie Becker: I really like the addition of "ink" in think, ink, pair, share!

00:47:39 Lauren Gill: applause

00:47:39 Gabby Trojanowski: [applause!]

00:47:40 Cathy Chaput: applause!!!

00:47:41 Konnie Guthrie: I think I would want to do one to model but also to use it for a following directions and clarifying questions activity.

00:47:42 Shelida Lee: lol... amazing

00:47:43 Pamela Gavina: \*\*applause\*\*

00:47:46 Courtney High: The social emotional connections are important. But that's it's own skill. Which makes these activities hard for some students.

00:47:47 W Tad Johnston: snap, snap, snap

00:47:49 Erica Roszler: applause

00:47:51 Lauren Martin: \*round of applause\*

00:47:52 Emily Kavanagh: Nice ta-da slide

00:47:56 Juanita Thomas: Absolutely!

00:48:03 David Barnes: Very nice!

00:49:02 Erina Smith: Quick writes in math class!

00:49:19 Lorna Randle: How often would you do think aloud in a week

00:49:56 Jeff Koenig: All the time @Lorna. Students need much time to connect socio-emotional

00:49:57 Lauren Gill: lorna every time I am solving something in front of students

00:50:15 Lorna Randle: Thanks Lauren

00:50:30 Lauren Gill: debrief much less often

00:50:35 Penina Kamina: Nice enthusiasm

00:51:30 JAcKy Rodes: I love these!

00:51:39 Lauren Martin: Liked, "...we learn together'

00:51:40 JAcKy Rodes: I want these poster size for my classroom

00:51:43 David Barnes: Love the Linking Research And Practice!

00:51:50 Kris Marsden: i like!

00:52:02 Patricia Sells: Enthusiasm

00:52:04 Ashley Haszko: Definitely using some of these questions for attendance checks online with my students

00:52:30 Ellen Metzger: This looks tricky!

00:52:35 Kelly Ward: Wow, does that look like a face? No I better get back on track.

00:52:36 Christina Siow Young: Which shape would be the starting shape to

build on?

00:52:38 W Tad Johnston: As I look, it's hard to see the starting place  
00:52:38 Grace Vaught-Smith: Wow, there are a lot of shapes. What kinds  
do I see?  
00:52:39 Aya Zvaigzne: wow that's a lot of shapes  
00:52:39 Lauren Gill: in today's environment self talk becomes worked  
examples for student to be sent with work  
00:52:39 Gabby Trojanowski: This design looks more complicated than the  
last one  
00:52:39 JAcky Rodes: wow, there are a lot of shapes in lots of spots, its  
hard to know where to start  
00:52:40 Danielle Mooney: I think I might start in the bottom right  
because the triangles are up against each other.  
00:52:42 Pamela Stark: 4 congruent triangles  
00:52:42 Beth Snoop: oh my: where to begin???  
00:52:42 Randy Ross: 4 equilateral triangles and one right triangle  
00:52:42 Karen Notestine: Where do I start?  
00:52:43 Annette Holloway: I don't know if I want to explain just 2-d  
00:52:44 Sharon Black-MacKinnon: where should I begin  
00:52:44 Christina Baldy: There's lots of different shapes in this  
design.  
00:52:47 Randy Ross: 2 squares  
00:52:48 Rebecca Ronk: Where should I start? Hmm maybe I'll start with the  
center triangle  
00:52:48 Lindsay Armstrong: How am I going to describe the correct  
angles some of these shapes are at?  
00:52:49 Elizabeth Devereaux: Wow. Do I divide the paper into quadrants?  
00:52:50 Louanna Mootoo: I am going to count how many of each shape there is  
00:52:50 Pamela Goodwin: Where do I start?  
00:52:50 David Drembus: Hmm, some of these shapes make it look like 3D. How  
do I explain that?  
00:52:51 Randy Ross: diamond  
00:52:52 Maggie Pfuntner: This is a really tricky shape, but I know I  
can break it into smaller pieces.  
00:52:53 Shelida Lee: Should I say the number of shapes?  
00:52:53 Jenny Sagrillo: Looks like there  
00:52:53 Rachel white: Not sure where to start.  
00:52:54 Lisa Hurst: I'm worried about the diamond  
00:52:55 Erina Smith: Maybe I will start from the center triangle.  
00:52:55 Gloria Flores: A lot of shapes  
00:52:58 Lauren Gill: I think I will..  
00:52:58 Michael Maynard: How to describe locations  
00:52:58 Robin Tucker: rhombus diamonds, triangle, square  
00:53:00 Christina Baldy: They are at lots of different angles.  
00:53:00 Mary Anne Opila: what would be my first step  
00:53:00 Sharon Ling: This looks complex!  
00:53:01 Patricia Sells: where do I start?  
00:53:02 Randy Ross: equilateral triangle in the middle  
00:53:02 Lorna Randle: What is going on here with the shapes  
00:53:02 Jenny Sagrillo: looks like there's a triangle in the middle

00:53:02 Shannon White: "I really need to make sure I use proper terminology."  
00:53:03 Kelly Ward: Why is that parallelogram on it's side?  
00:53:03 Gabby Trojanowski: What's a logical flow for a description?  
00:53:04 Mark Phipps: It looks like my old jack o lantern, I am not sure where to start  
00:53:04 Patti-Jo Lacey: There are 8 different polygons, where should I start?  
00:53:05 Tim Filipovich: I believe the triangle in the middle might be where we want to start.  
00:53:07 April Shelton: I think for me it would be easier to start with the center triangle and maybe work in units outside  
00:53:07 mechelle Barnett: Wow! Where to begin!?  
00:53:07 W Tad Johnston: the two rhombii will be hard to talk about unless the person knows pattern blocks  
00:53:08 Tracy Pinter: start at the center and work up and out. and then back to the triangle in center and then on.  
00:53:09 Gloria Flores: Triangles, squares, pyramid  
00:53:10 Kerrie Becker: I don't see where to start because it seems to be in the center coming out  
00:53:10 Paula Fitzpatrick: a lot of math vocabulary!  
00:53:13 Ruchi Arora: a right angled triangle on a square  
00:53:15 Mirasol Laberinto: I can see a lot of shape  
00:53:16 Lorna Randle: Is that a flat square or a diamond  
00:53:17 Teresa Bulanda: i would probably start from the triangle in the center  
00:53:20 Jeff Koenig: I'm not sure how to begin here. Wait! I saw someone else help calm themselves so I'll follow along. Deep breath...I'll start with the square as it is easy to describe and I can relate the position of others easily to it  
00:53:21 Elizabeth Devereaux: The bottom shape looks 3D  
00:53:21 Erica Roszler: vocabulary  
00:53:23 Karin Keener: Similar shapes but different locations how to explain and start?  
00:53:26 Patti-Jo Lacey: I think I should start in the centre.  
00:53:26 Kelly Ward: Middle out or left to right?  
00:53:28 Jet Yeung: lots of shapes  
00:53:37 Ellen Metzger: There are two different kinds of triangles -- one looks like a right triangle and four equilateral triangles  
00:53:38 Vanessa Sims: Do I match them  
00:54:29 Shelida Lee: Alleviating anxiety would be huge  
00:54:38 Lauren Gill: acknowledging self talk that happens very quickly that sometimes student do not even realize are decision points  
00:54:43 Courtney High: I wish my non-math coworkers would do this too! They have so many misconceptions about math.  
00:54:46 David Barnes: Carly, If you have a question would you put it in the Q & A.  
00:54:52 Gordon Clark: Have the students create the image so that my 'self talk' is real.  
00:55:01 Rachel white: I agree with you Courtney.

00:55:10 Michelle Silvia: DO you give them shapes to manipulate or just images?

00:55:20 Victor Muller: A need to get out of comfort zone and try this more

00:55:26 Deborah Chapdelaine: LOL I do the same thing

00:55:33 Kelly Ward: Some of my high school students can ONLY problem solve if they talk out loud.

00:55:50 Lisa Hurst: How do you overcome a student who is embarrassed by not knowing what to do - doesn't want to share that they struggle?

00:55:54 Elizabeth Chapman: I have a few middle schoolers that are the same way

00:55:59 Michelle Silvia: I love it when they talk out loud

00:56:09 Michelle Silvia: to solve problems

00:56:32 Melissa Luzano: I like doing these types of activities before going over vocabulary. I want to see what words students use. I like when they ask, "What is that called?" It also helps to see what vocab students already know. Then, I'd do the activity again after going over the vocab.

00:56:42 Annette Holloway: @Lisa I do a lot of modeling where I make mistakes and building a positive classroom culture where they feel that they can be vulnerable and not be judged

00:56:45 Penina Kamina: My mom self-talks a lot; you just see mouth movements but no sound

00:56:54 Lauren Gill: self talk then leads to better cooperative learning. They learn how to communicate their ideas

00:56:55 J Michael Shaughnessy: You are muted--no worries.

00:56:59 Lisa Hurst: @Annette - good idea!

00:57:02 Erina Smith: Let students type their self-talk and project on screen? Anonymously?

00:57:09 Alicia Kaplan: When I have a student that does not want to share or is embarrassed, I ask if anyone can explain the other students work. This usually gets them talking.

00:57:11 Ginette Peralta Suarez: Love this self-talk cards, gives them a good starting point to sharing

00:57:33 Kerrie Becker: categorizing self-talk is helpful for Ts and Ss

00:57:45 Emily Kavanagh: A great idea

00:57:51 Elizabeth Devereaux: Where do I buy these cards?

00:57:54 Christina Hall: Love that!

00:57:59 Rachel white: Super idea. Love this!

00:58:05 Denise Lofranco: Wow this is amazing!

00:58:07 Christina Siow Young: This is great!

00:58:11 Mary Johnson: Lov that board

00:58:28 Kelly Ward: What a great idea!

00:58:49 Ellen Metzger: Wait- what's the difference between Planning and strategy?

00:58:59 Denise Quarles: Would be interesting to see these used across the content areas..

00:59:09 Teresa Bulanda: even" i am confused" is not excluded

00:59:15 Aya Zvaigzne: woo hoo

00:59:17 JAcky Rodes: this is great! kids can write things on sticky notes and put them where they go, or have a class discussion

00:59:19 Amy Rushall: Thanks!!

00:59:19 Naomi Church: Yay!  
00:59:19 Kristin Asa: Thank you!  
00:59:19 Leanna Foreman: \*clap clap\*  
00:59:19 Pamela Goodwin: Great!  
00:59:20 Christina Hall: WOOHOO! Thank you!  
00:59:21 Lisa Hurst: VERY!  
00:59:23 Erin Hughston: Thank you!  
00:59:23 Sharon Black-MacKinnon: yippee  
00:59:23 Christina Siow Young: Yay!  
00:59:23 Ginette Peralta Suarez: Awesome!  
00:59:24 Corissa Freeman: Thank you!  
00:59:25 Elizabeth Devereaux: Thank you!!  
00:59:25 Cecilia Lopez: yay!  
00:59:26 Judith Noneman: clap clap clap  
00:59:26 Daniel Irving: Thank you so much!!  
00:59:26 Stephenia Courtney: Thank You  
00:59:27 Kerrie Becker: Yes!! Excited! Thank you!  
00:59:28 Paula Fitzpatrick: thank you  
00:59:28 Michelle Silvia: Greta  
00:59:30 Mohamed T: Thanks for the materials and cards!  
00:59:31 JAcky Rodes: thank you!  
00:59:31 rachel wingo: wow. thank you  
00:59:31 Shannon White: Haha Thank you!  
00:59:32 Annette Holloway: That's great! Thank you for sharing!!!  
00:59:32 Lorie Huff: Wonderful!!  
00:59:33 Maggie Pfuntner: These are great!  
00:59:33 Robin Tucker: Soooo excited  
00:59:34 Mirasol Laberinto: Nice!  
00:59:34 Lorna Randle: I love it. I have a car, lol. I need this  
00:59:35 Mariangeli Rivera: Great!!  
00:59:35 Michelle Silvia: Great thanks  
00:59:37 Lorie Huff: Thank you!  
00:59:38 Anggienett De Ala: Wow! Thank you  
00:59:38 Lauren Gill: I love Cathy, she is a great presenter.  
00:59:39 Beth Snoop: thanks!  
00:59:40 Tamikia Greene: Amazing! THANK YOU (:  
00:59:41 Denise Smith: love you Cathy - miss your visits to MB  
00:59:42 Cindy Bryant: That's great! Thank You!  
00:59:44 Julie Benotti: Thanks!  
00:59:44 Deborah Chapdelaine: can we get the web address for the cards?  
00:59:47 Michelle Silvia: Use Jamboard  
00:59:59 Alicia Kaplan: Thank you!  
01:00:08 Jet Yeung: Thank you. great cards. will surely use it my  
classes.  
01:00:10 Emily Kavanagh: I am going to use the Struggle Talk with my students  
01:00:28 Mark Phipps: Happy Thoughts!  
01:00:31 Tracy Pinter: this would be great activity for the beginning of  
the school year to introduce students and get them to begin thinking mathematically  
after all of this! Especially then introducing the 8 mathematical practices in some  
of these.

01:00:49 Gloria Flores: I love this!  
01:00:56 Kristine Butz: Thankyou very much:-) I have enjoyed listening this evening. Great ideas for students who struggle in mathematics and to get students to share their thinking.  
01:01:01 Annette Holloway: Great idea @ Tracy!  
01:01:03 Suzanne Smith: @Tracy--YES!!  
01:01:17 Lorna Randle: This is great for students of color  
01:01:23 W Tad Johnston: self talk about self talk would be pretty cool  
01:01:44 Michelle Silvia: Yes it did..just clarified some good things I'm doing  
01:01:49 Kelly Ward: @W Tad -- Meta self talk!  
01:02:03 Mark Phipps: Boo silos  
01:02:04 Michelle Silvia: Math is it's own language  
01:02:13 Michelle Silvia: Haha  
01:02:18 Kris Marsden: very true  
01:02:19 Erina Smith: Our kids are so good at typing their self talk on cell phones. Maybe tech can be used to share their self talk?  
01:02:25 Tracy Pinter: story problems are informational texts!!!!  
01:02:42 Denise Quarles: Tech to share self talk: paddles..  
01:02:46 Denise Quarles: padlet  
01:02:53 Pamela Gavina: genius  
01:02:54 Michelle Silvia: Use Jamboard on google...its  
01:03:06 Zahra O'Reilly-Bates: That makes sense  
01:03:23 W Tad Johnston: story problems can also be fabtasyies :-)  
01:03:23 Elizabeth Devereaux: I still try to rush through math texts when time is short...  
01:03:28 Michelle Silvia: It's a interactive whiteboard to post sticknotes  
01:03:44 Mark Phipps: Ink to math in OneNote  
01:03:56 F V: I say that all the time. especially in FSL OR ESL students  
01:04:37 Stephenia Courtney: Love the idea of Math Text  
01:04:58 Mark Phipps: and highlight it  
01:05:02 Tim Filipovich: Misconception, wow!  
01:05:12 Erina Smith: I agree. This is dangerous.  
01:05:18 Tracey Sweeney: My ah-ha moment of the day. Thanks you!  
01:05:23 Juanita Thomas: I agree as well  
01:05:29 Cindy Bryant: Great examples to illustrate the hit or miss.  
01:05:35 Kristin Asa: Agreed..makes kids think they are not good at math  
01:06:02 Tracey Sweeney: 252  
01:06:02 Daniel Barnett: By?? BUY!!  
01:06:15 Mark Phipps: We must be making something delicious  
01:06:21 W Tad Johnston: OT's too bad that we've been saying no key word strategies since at least the early 90s (with a research base) and it is still around  
01:06:26 Angela Ford: Good catch Daniel  
01:07:01 Courtney High: There is a lesson like this in ALEKS! My students struggle with it so much.  
01:07:04 Elizabeth Ruiz: 16 seconds  
01:07:07 W Tad Johnston: 18 seconds  
01:07:07 Annette Holloway: I have students read one sentence at a time

and write down what they know. Then they add to what they know as they read the next sentences. This helps them focus on the math that is actually happening instead of looking for “key words.”

01:07:19 Tracey Sweeney: 16  
01:07:32 Pamela Gavina: this is a logic problem  
01:07:32 Ellen Metzger: You can make it into 4 pieces with just 2 cuts.  
01:07:35 Anggienett De Ala: 16  
01:07:37 Elizabeth Ruiz: oh! so it's 18. tricky  
01:07:38 Jacquelyn Moorman: The QAR strategy also works great for solving math word problems (Question-Answer-Relationship)  
01:07:58 Elizabeth Ruiz: This is where a picture would help too  
01:08:11 Tim Filipovich: That may be so Tad, but in many cases we have elementary folks who are not really trained mathematically but in literacy and that strategy does work for reading at times.  
01:08:13 J Michael Shaughnessy: Anybody use  
01:08:22 J Michael Shaughnessy: Three Reads?  
01:08:24 Aya Zvaigzne: always make a picture  
01:08:28 Gary Stewart II: anyone deal with Go Math?  
01:08:35 Gloria Flores: I use Three Reads  
01:08:44 Rebecca Ronk: I use GoMath Gary  
01:08:46 Lauren Gill: three reads +  
01:08:53 Janet Hollister: I use Three Reads  
01:09:01 Elizabeth Devereaux: CUBES  
01:09:02 Marie Laboy: We use Go Math  
01:09:11 Christina Siow Young: We use CMP  
01:09:12 Ginette Peralta Suarez: I use Go Math  
01:09:14 Annette Holloway: iReady  
01:09:20 Kerrie Becker: I encourage Ss to make a quick draw of what's happening - the story, text, problem - before writing any "math"  
01:09:20 Mark Phipps: Spin once around and clap twice  
01:09:24 Courtney High: I have go math but I actually use CPM  
01:09:31 Michael Maynard: Good, more Go Math people  
01:09:32 W Tad Johnston: CUBES seems awfully close to key words  
01:09:51 Courtney High: I have never liked CUBES but I couldn't explain why. Now I can.  
01:09:55 Kris Marsden: We use Go Math  
01:09:59 Nicole Rigelman: Actually I've had teachers liken CUBES to Three Reads... how might you respond.  
01:10:02 Polly Kimminau: I value drawings when solving texts.  
01:10:06 Kristine Matheson: CUBES is the same premise as Heuristics.  
01:10:07 Zahra O'Reilly-Bates: I teach students how to Annotate math text like we do for close reading  
01:10:20 David Barnes: PS is dynamic and fluid! Love it!  
01:10:21 kathy kansky: I have big ideas. Used to have go math. Don't miss it honestly. Digital piece was terrible...has it gotten better?  
01:10:21 Ginette Peralta Suarez: I don't like CUBES, but do use and like UPS check  
01:10:24 Juanita Thomas: we try to draw out word text  
01:10:25 Janet Hollister: Why is CUBES like “Three Reads”?  
01:10:28 Naomi Church: CUBES isn't research based. Three Reads is an



instructional routine which is based in research.

01:10:29 Annette Holloway: @Azhra YES!

01:10:32 Kristine Matheson: 3 Read is in my opinion on the best way to read a math text for understanding

01:10:32 Gary Stewart II: what is your opinion of it? i like Go Math, especially during all of this

01:10:38 Victor Muller: I would rather use, does this answer seem reasonable?

01:10:56 Stephenia Courtney: Don't wait until the end to solve and check! Solve and check throughout the process.

01:11:01 Teresa Bulanda: you need to add picture to the words!

01:11:04 Aric Barnes: I also find that telling students "draw a picture" can be very powerful, even with very abstract concepts

01:11:06 W Tad Johnston: I like read, draw, write because they have to think to make the drawing (at least some) or it shows what's happening with their thinking - good for simple situations but can get harder when things get confusing

01:11:11 Elizabeth Devereaux: I think its still a good idea to use sometimes - especially for ADHD kids. I've been having them apply CUBES to ELAR, lol - this is a good thing for me to think about!

01:11:19 Lauren Gill: I like doing questions without numbers for fraction and decimals

01:11:23 Courtney High: There is a close read number talks activity that emphasizes this idea of actually READING the problem.

01:11:29 Elizabeth Devereaux: Where do I find Read, Draw, Write?

01:11:30 Janice Novakowski: Numberless Word Problems - Brian Bushart website

01:11:30 Ginette Peralta Suarez: I wish Go Math had better word problems

01:11:32 Tracy Pinter: acting out some problems will help-- especially kinesthetic learners.

01:11:48 Lauren Martin: Will be borrowing "Paraphrasing Activity". Thank you!!

01:12:18 Gary Stewart II: i agree, the word problems aren't very good. but the student interactive lessons are awesome for my kids

01:12:18 Ginette Peralta Suarez: Love Numberless Word Problems!

01:12:21 Teresa Bulanda: difficult for ELL to deal only with the words

01:12:37 Mark Phipps: Wow, if it was really simple, it could be like telephone

01:12:39 Lauren Gill: what about polya's steps for problem solving

01:12:52 David Barnes: Annie Fetter and Brian Bushart

01:13:17 Denika Gum: Will you all put in the link for the certificate of participation in the Q & A page?

01:14:01 Ginette Peralta Suarez: I agree with you Gary, most textbooks are stronger for something not the other. Would be interested in getting my hands on an Into Math book to compare

01:14:03 Michelle Bourgeois: I call them math games

01:14:05 Leanna Foreman: They answered that both live and in the Q&A, it'll be emailed

01:14:11 Michelle Bourgeois: it's a game

01:14:14 JAcky Rodes: I love doing numberless word problems

01:14:23 Beth Kobett: great job! thank you!!!  
01:14:35 David Barnes: Certificates will be sent to all registered attendees at tonight's session.  
01:14:38 Carrie Anderson: yes chucking  
01:15:00 Cindy Bryant: This was fantastic Cathy!  
01:15:04 Juanita Thomas: Sounds great!  
01:15:05 Lauren Gill: Be aware of words students may not know. I had a grade 8 student and he was struggling with the word "curtain" so the problem made no sense  
01:15:06 Stephen Schrader: I ask students to tell me what the problem is about in one or two words first, only one or two words.  
01:15:10 Konnie Guthrie: I really like this. This will help them get to sense making about the particular problem. My students often do not make sense of the problem. This could help them.  
01:15:48 Lauren Gill: My Ah Ha, use predicting skills. Thank you  
01:15:58 Stephen Schrader: Then I ask the students to tell me what was happening in the problem.  
01:16:07 Gary Stewart II: David Barnes, I was sent a link to attend. i never had to register for anything  
01:16:12 Elizabeth Devereaux: Great idea using prediction more intentionally instead of just casually.  
01:16:21 Stephen Schrader: At the end we put in the details, the numbers.  
01:17:01 Teresa Bulanda: Can you please post the link to the certificat in the chat window?  
01:17:16 Leanna Foreman: They said they will be emailing it  
01:17:17 Stephen Schrader: I also have them draw a picture or representation  
01:17:24 W Tad Johnston: missing the square with the 2?  
01:17:26 Lorna Randle: I do that  
01:17:27 David Barnes: @Gary - Go to [www.nctm.org](http://www.nctm.org) and register for this now so we know you are here.  
01:17:28 Denise Quarles: Lovely! Predicting/revising? And giving the answer!  
01:17:42 Suhana Kadoura: I'm sorry I have to leave. Thank you so much Cathy & organizers!  
01:17:46 David Barnes: @Gary - [www.nctm.org/100](http://www.nctm.org/100) and this session  
01:17:49 Tracy Pinter: reverse engineering problems is a great way to promote thinking.  
01:17:53 Lauren Gill: Especially give answers during home learning, otherwise they do not know if they are on the right track  
01:17:55 kathy kansky: Fantastic presenter-thank you!  
01:17:59 Rachel white: Thank you. Got some great ideas about math and language.  
01:18:03 Anggienett De Ala: Thank you so much for the new strategies!  
01:18:05 April Shelton: It was great! Thank you!  
01:18:08 Lorna Randle: Awesome webinar  
01:18:09 Stephanie Burton: Thanks..Want to email my ELA colleagues now to see what words they use.  
01:18:11 Erica Roszler: thank you!!! amazing ideas!!!  
01:18:17 Audrey Campbell: This was great!!

01:18:19 Gary Stewart II: ok, thank you David  
01:18:21 Ginette Peralta Suarez: Thank you!!  
01:18:21 Sharon Black-MacKinnon: Thank you so much!! Wonderful webinar.  
01:18:21 Tamikia Greene: I am leaving here with so many new ideas and  
connections!  
01:18:22 Elizabeth Devereaux: Great presentation. I can use these right  
away!  
01:18:25 Stephen Schrader: Math is a language. I should be taught as  
one.  
01:18:26 Kerrie Becker: Excellent strategies to consider! Thank you!  
01:18:27 Robyn Headifen: ka pai, this was great thank you  
01:18:44 Mary Dugas: great ideas  
01:18:45 Mary Anne Opila: Thank you!  
01:18:47 Carole Bamford: Great! Best one so far! Thank You!!  
01:18:49 Aric Barnes: Thank you very much for this! Very helpful and fun!  
01:18:51 Stephenia Courtney: Amazing! The rocess is more importnat tha  
the answer  
01:18:52 David Barnes: LOL  
01:18:55 Juanita Thomas: Thank you, I enjoyed your presentation  
01:18:58 Cathy Chaput: Thank you so much, Cathy. It is always a privilege  
to learn from you. You never give me a headache!!  
01:18:59 ROER SHONDA: Thank you  
01:19:00 Corissa Freeman: Kids are so honest! Makes me laugh!  
01:19:01 Cecilia Lopez: Thanks!  
01:19:01 Gabby Trojanowski: Obsessed  
01:19:01 Mirasol Laberinto: Awesome!Thank you very much!  
01:19:02 Kristine Matheson: This has been great. Thank you so much!  
01:19:06 Madison McKindley: Great webinar. Thank you.  
01:19:08 Judith Noneman: Thank you Cathy!  
01:19:10 Ellen Metzger: Ha! You give me a headache!  
01:19:12 Trena Wilkerson: Thank you so much! Great ideas and ways to  
engage students in thinking!  
01:19:14 JAcKy Rodes: thank you, this was the best presentation I have  
attended so far!  
01:19:17 Rebecca Ronk: I love asking the question "How do you know" The  
students always think they did something wrong when I ask that question.  
01:19:18 Polly Kimminau: Thank you, Cathy! Great ideas. I look forward to  
sharing them with the teachers in our district.  
01:19:19 Emily Kavanagh: Haha. Headache is spelled wrong.  
01:19:22 Corissa Freeman: They had nice handwriting.  
01:19:23 Christina Siow Young: Thank you!  
01:19:23 Konnie Guthrie: Useful information.  
01:19:24 Laura Ramp: This was excellent! Thank you!!  
01:19:24 Robin Tucker: this was great - thanks so much... Great ideas that  
can be modified easily for my SpEd stdents  
01:19:25 Nora Chase: This was the best webinar, ever. So entertaining!!!  
01:19:26 Denika Gum: Thank you!  
01:19:27 Elizabeth Chapman: I love the math text I'm going to work on  
this! I'm going to share it with my ELA teachers too!  
01:19:28 Gurpreet Sahmbi: Brilliant talk, CMK!

01:19:28 Michelle Silvia: Where is the cert link?  
01:19:30 Ashley Haszko: Thank you for a very informational webinar!  
01:19:31 Teresa Bulanda: thank you, great presentation and a lot of learning  
for us  
01:19:31 Daniel Luther: Wow... this was GREAT! Thanks so much! I can't  
wait to share with my colleagues!  
01:19:32 Zahra O'Reilly-Bates: Great information. Thank You!  
01:19:32 Monica Roland: Thank you so much! Learned some new things about  
incorporating language strategies and processes in math!  
01:19:32 Suzanne Smith: Love these strategies--thanks for sharing!  
01:19:36 carrie gordon: Thank you! This was so informative  
01:19:38 Jocelyn Masasi: Thank you!  
01:19:39 Tara Maynard: All great info - thanks!  
01:19:39 Daniel Irving: Thank you for this incredible presentation and  
invaluable information!  
01:19:42 Kelley Nelson: Great insight. Thanks so much for sharing your  
knowledge. Lots to think about.  
01:19:42 Pamela Gavina: I love your sense of humor!!! Thank you  
01:19:42 Abigail Pratt: Thanks for sharing! So informative!  
01:19:43 Lorie Huff: Thank you Cathy, J Michael, Faith, Dave, Chonda, and  
NCTM! Great information!  
01:19:44 Lisa Caudle: Thank you!  
01:19:45 Michelle Silvia: thank you  
01:19:46 David Drembus: Thanks for all of this, especially the positive  
mindset!  
01:19:47 Mary Johnson: Thank you for a lot of good ideas !!!!  
01:19:47 Erina Smith: Thank you so much! Loved it!  
01:19:50 Kristin Messenger: Thank you for sharing your expertise Cathy!  
01:19:50 Emily Kavanagh: This was extremely informative  
01:19:51 Mariangeli Rivera: Love the idea of even sometimes after  
analyzed the word problem offer the answer. Because is less stress full and help  
them be more open to concentrate in the processand not in the numbers. Thanks  
01:19:52 Janel Marr: Thank you  
01:19:52 Louanna Mootoo: What an excellent presentation! This will change the  
way I teach math and has given me some great ideas for how to integrate math and  
language!!! Thanks so much Cathy! You never disappoint!!!!  
01:19:53 Carrie Anderson: Thank you  
01:19:54 Aya Zvaigzne: This was great and very useful. Thank you !!!!  
01:19:54 Wendy Kraft: thank you for sharing  
01:19:54 Jet Yeung: Thank you for all the information. This is so  
helpful. Wonderful presentation with lots of skills.  
01:19:54 David Barnes: Certificates will be sent to all registered  
attendees at tonight's session.  
01:19:54 Paula Fitzpatrick: thank you!  
01:19:55 Gurpreet Sahmbi: I have personally used both books in the  
secondary context and they are practical and incredibly helpful  
01:19:55 Gloria Flores: Awesome  
01:19:56 Sharena Domingo: This session is a lot of fun. I am imagining  
how I would incorporate this in my class while I am listening. Great job!  
01:19:57 Kendra Edwards: Thank you!

01:19:58 Cathy Inman: Thank you for some great ideas/strategies.  
01:19:58 Penina Kamina: Thank you Cathy  
01:19:59 Karen Klie: Thank you!  
01:20:01 Karin Keener: Thank you for the amazing information!  
01:20:01 Cathy Chaput: Also, thank you NCTM  
01:20:05 Olga Kosheleva: Thank you!  
01:20:05 Shelida Lee: Amazing!  
01:20:06 Rhonda Kilgo: Thank you!  
01:20:08 Jose olivencia: Thank you  
01:20:10 Katherine Garcia: Thank you!  
01:20:12 Gloria Flores: Thank You  
01:20:14 Patricia Sells: AWESOME STRATEGIES  
01:20:15 Daniel Barnett: Quana! fr. Dan.  
01:20:16 Denise Lofranco: Thank you Cathy, Thank you NCTM  
01:20:20 Pamela Gavina: happy birthday to you  
01:20:21 Gary Stewart II: happy birthday  
01:20:21 PAVNEET BHARAJ: happy birthday Dr. Berry  
01:20:22 Vanessa Sims: Thank you  
01:20:22 Daniel Barnett: Bye!  
01:20:23 Lauren Gill: happy birthday  
01:20:25 Helene Alalouf: Thank you! Amazing learning! Love enthusiasm about math! Stay safe!  
01:20:26 Elizabeth Ruiz: Happy Birthday!  
01:20:27 Jessie Green: Happy birthday!!  
01:20:27 JAcky Rodes: Happy Birthday  
01:20:27 Marie Laboy: Happy Birthday Robert!!!  
01:20:28 Ashley Haszko: Happy Birthday!  
01:20:29 Corissa Freeman: Happy Birthday!  
01:20:29 Gabby Trojanowski: Happy Birthday!  
01:20:29 dana dulzo: thank you  
01:20:30 Sherry \*Bovey: Thank you so much!  
01:20:30 Alicia Kaplan: Thank you for all the wonderful ideas, can not wait to start using them once school reopens.  
01:20:31 Gloria Flores: Happy Birthday  
01:20:31 Lisa Hurst: Thank you! I'm looking forward to the cards!  
01:20:32 Shelida Lee: Happy Birthday!  
01:20:33 Pamela Goodwin: Great webinar! Strategies that I can definitely use with my classes! Stay safe and well!  
01:20:34 Nora Chase: Happy Birthday!  
01:20:34 Judith Noneman: Happy birthday Robert!  
01:20:34 Kristine Matheson: Happy Birthday!  
01:20:34 Patricia Sells: HAPPY BIRTHDAY  
01:20:35 Lisa Hurst: Happy Birthday!  
01:20:35 Sharon Ling: Happy birthday!  
01:20:36 Juanita Thomas: Happy, happy birthday  
01:20:36 Anggienett De Ala: happy birthday!  
01:20:36 Mariangeli Rivera: happy Bday  
01:20:36 Sharon Black-MacKinnon: Happy birthday!!  
01:20:37 Nicole Rigelman: Happy birthday Robert!!!  
01:20:37 Annette Holloway: Thank you so much! This was an awesome

session!

01:20:37 Carole Bamford: Trust a Canadian to be so nice!  
01:20:41 Mark Phipps: Great job today  
01:20:41 Karen Notestine: Happy Birthday!  
01:20:42 Jose olivencia: happy birthday  
01:20:43 Emily Kavanagh: Happy Birthday Robert!!!!  
01:20:44 Mohamed T: Thank you for the presentation! Happy B Day!  
01:20:44 Brian Odiwuor: happy birthday  
01:20:44 Shannon White: Thank you!  
01:20:45 Daniel Irving: Happy Birthday!  
01:20:46 Brenda McNeese: Thank you.  
01:20:47 Mary Anne Opila: Happy Birthday  
01:20:47 Tailor Bouyer: thank you so much Cathy!!  
01:20:47 Sharon Ling: Thank you!  
01:20:47 Erin Hughston: Thank you! Happy birthday!  
01:20:48 Michelle Silvia: Happy birthday and thank you  
01:20:58 Mohamed T: :)  
01:21:00 Elizabeth Devereaux: Happy Birthday1  
01:21:04 Sharena Domingo: Happy birthday!  
01:21:10 Jet Yeung: Happy Birthday  
01:21:12 Ellen Metzger: Thank you!  
01:21:13 Patti-Jo Lacey: Thanks Cathy!  
01:21:13 Jennie Brown: Happy Birthday!  
01:21:17 Shelida Lee: NY!!!!  
01:21:20 DENİZ ÇAKIR: thank you  
01:21:31 KEISHA SMITH: ALABAMA  
01:21:32 Jorge Veloso: Yeah! Angola is here!  
01:21:38 Jennie Brown: Thank You!  
01:21:40 DENİZ ÇAKIR: Turkey İZMİR  
01:21:51 Stephenia Courtney: Thank you  
01:21:51 Aya Zvaigzne: cool beans  
01:21:53 Mariangeli Rivera: Nice thank you  
01:21:53 Courtney High: Thank you Cathy!  
01:22:09 Jennifer Heldenbrand: Thank you for sharing the Self-Talk cards!  
01:22:25 Victoria Peterson: Thank you for all the fantastic ideas!!  
01:22:28 Mark Phipps: These 13 hours have been some of my best spent since starting teaching.  
01:22:43 W Tad Johnston: Visited Izmir in Turkey last year - favorite city in the country  
01:22:55 Essence Brice: THANK YOU CATHY! You are BEYOND entertaining (and informative)! Best hour of PD yet! I learned (and laughed) a lot!  
01:23:01 JAcky Rodes: is there a link for tonights certifcate of participation  
01:23:05 Courtney High: Oh! Use classroom structures to give all students think time. Think, ink, pair, share is a great strategy. Or you can use digital tools to type out thoughts (flipgrig for example)  
01:23:08 Ellen Metzger: This would be excellent for ELL if you give the vocabulary of above, below, next to...  
01:23:10 Michelle Silvia: Can you please post the certificate link  
01:23:19 Aya Zvaigzne: I use sentence stems i multiple languages including

english

01:23:27 Courtney High: Sentence stems are great too!

01:23:29 Faith Peddie: The certificate will be emailed

01:23:39 Michelle Silvia: Thank you

01:23:42 Aya Zvaigzne: please

01:24:02 Courtney High: Great resource for sentence stems and academic questioning

<https://www.colorincolorado.org/sites/default/files/Academic-Language-Function.pdf>

01:24:58 Melissa Scroggins: Thank You.

01:25:00 Ellen Metzger: cathy.marks.krpan@utoronto.ca

01:25:19 Mohamed T: Thanks so much!

01:25:30 Pamela Gavina: hahahaha

01:25:34 Mark Phipps: #lockindecline

01:25:41 Ellen Metzger: Wow! Mt Rainier!

01:25:58 Megan Riley: Certificate??

01:26:01 Cindy Vaquero: thank you so much! and happy birthday

01:26:04 Gabby Trojanowski: Thank you so much!

01:26:09 Shari Kaku: Thank you. Love the connection to ELA!

01:26:32 Linda Murphy: Thank you, from Ohio

01:26:47 Gabby Trojanowski: You're sharing! :)

01:26:47 Naomi Church: You are sharing.

01:27:08 Nellie Alvarez: Looking forward to the recording. to take notes

01:27:34 Shannon White: I knew it would be great. Our entire school read Math Expressions years ago and it was one of the most influential PLC sessions we had. Thank you!

01:28:56 Beverly Krumpe: Thank you for everyone's input. It was interesting and thought provoking, Be safe.

01:29:09 mechelle Barnett: This was great and I love the way it was broken down!

01:29:12 Mary Day-Mauro: And to echo Shannon above, our board has been loving using Teaching Math with Meaning. Excellent books for every teacher!

01:29:23 Mark Phipps: This has become the highlight of my afternoon. The best, like today, have prevented me from stepping away to grab a beverage. Thank you.

01:29:44 Jorge Veloso: It was a good session. Bye.

01:30:28 Mark Phipps: I just signed up for it recently. It was easy.

01:30:56 Rebecca Ronk: Thank you so much!

01:31:00 Helene Alalouf: THANK YOU! STAY SAFE!

01:31:07 Peter Duong: Thank you so much for wonderful tips

01:31:10 Clarissa Rothe: Thanks so much!

01:31:29 Lauren Gill: thanks from Prince Edward Island

01:32:02 Mary Day-Mauro: We linger... don't want to miss anything. It was worth it. Self talk script! Thanks

01:32:50 Carrie Anderson: Carrie Anderson, MS, here. How long do you start to see improvement in students who are new to self talk?

01:32:55 Aya Zvaigzne: What is a string? (in this context)

01:33:01 Cindy Vaquero: What is an example of what you would say to a student who can't concentrate?

01:33:05 Edel Paracuelles: Yes, what's a string?

01:35:06 Mark Phipps: It is like math talks then

01:35:24 Faith Peddie: The recording will post tomorrow at [www.nctm.org/100](http://www.nctm.org/100)  
01:35:38 Juanita Matthews: Awesome  
01:35:54 Mark Phipps: We should write a bot for NCTM so it can respond automatically to the certificate questions  
01:36:00 Brandy Gunels Johnson: How long do you start to see improvement in students?  
01:36:12 Edel Paracuelles: THANK YOU!  
01:36:12 Aya Zvaigzne: Please, do you have a top ten list (approx) for the most essential math books to read?  
01:36:20 Faith Peddie: Mark, do you have the ability to do such a thing?! If so, please send this way ;-)  
01:36:31 Carrie Anderson: GOOD QUESTION  
01:37:02 Mark Phipps: My wife has the ability. She is in marketing and writes these chat bots  
01:37:40 David Barnes: Join now at [nctm.org/join](http://nctm.org/join) and get \$20 off Premium Membership  
Renew at [nctm.org/renew](http://nctm.org/renew) and get \$20 off any renewal

Use code: 100Days

01:38:27 Mark Phipps: Thanks all  
01:38:37 Elizabeth Chapman: thank you so much this has been awesome!  
01:38:50 DENİZ ÇAKIR: thank you from İzmir TURKEY  
01:39:08 Sherry \*Bovey: Wonderful ideas and thank you for sharing the research with us.  
01:39:39 C Robertson: Thank you to all for your efforts tonight to present to us!  
01:39:44 Aya Zvaigzne: Thank you for providing this opportunity or learning.  
01:39:53 C Robertson: LOL!  
01:40:04 Stacy Osideko: thank you  
01:40:15 C Robertson: Triple fire hose!