

00:24:44 Trena Wilkerson: Hello from Waco, TX!  
00:24:45 Cindy Bryant: Hello from Springfield, MO!  
00:24:51 Cindy Bryant: Please set your chat to "All panelists and attendees" so that everyone can see your chat posts!  
00:25:07 Beth Kobett: Welcome Everyone!  
00:25:09 Tricia Stohr-Hunt: Greetings from Richmond, VA!  
00:25:11 Emily Kavanagh: Hi from Columbia, MD  
00:25:26 Tricia Stohr-Hunt: I've lost count!  
00:25:30 Carol Matsumoto: Hi Faith and Beth from Winnipeg !  
00:25:34 Aya Zvaigzne: Kindest regards from Nashville, TN - stopped counting a long time ago  
00:25:35 Nicole Rigelman: I have also lost count  
00:25:35 Patrick Vennebush: Good afternoon from Portland, OR!  
00:25:39 Lorie Huff: Hi Beth!  
00:25:41 Maria Padiernos: Hello from Detroit, MI, not sure but almost all high school and middle school  
00:25:42 Kristen LeGeyt: hi from nh  
00:25:47 Nicole Rigelman: Hello from Portland  
00:25:47 Dylan Besk: Greetings from Sacramento, CA.  
00:25:47 Esther Winikoff: Hello from Baltimore, MD!  
00:25:49 Barbara Post: Hi from Orange, CA I hav attended about 25.  
00:25:52 Delise Andrews: Hi from Nebraska!  
00:25:52 Lorie Huff: Hello from Fayetteville, Arkansas  
00:25:57 Cindy Cliche: Hello from Murfreesboro, TN  
00:26:00 Shelly Scheafer: Hello from Bend, Oregon  
00:26:03 Khoirul Qudsiyah: From Indonesia  
00:26:03 Patrick Vennebush: Wow, 25! Awesome!  
00:26:05 Jenny Sagrillo: hello from Milwaukee, WI  
00:26:07 Carole Bamford: Hi from Montreal Canada, and I've lost count too!  
00:26:08 Cindy Bryant: Hi Delise and Lori!  
00:26:09 Azniv Shahmelikian: Hello from Reseda Ca.  
00:26:10 Mark Heasley: Hi from Chicago  
00:26:11 Nicole Rigelman: Hi @Denise, miss you!!  
00:26:14 Trena Wilkerson: HIJ Delise! So glad to have you!  
00:26:17 Lorie Huff: Hi Cindy!  
00:26:18 Beverly Bailey: Diamond, Ohio  
00:26:20 Trena Wilkerson: I meant Hi!  
00:26:22 Noe Eugenio: Hi from Philippines!  
00:26:24 Michael Lanstrum: Hello from Cleveland, Ohio - All of them  
00:26:35 NITIN MALVIYA: Hello from India  
00:26:37 Trena Wilkerson: HI Nicole!  
00:26:41 Delise Andrews: Hi, all! So excited for this session. :)  
00:26:45 Michael Lanstrum: Right!  
00:26:47 Nicole Rigelman: Hi Trena... nice to see you again :)  
00:26:56 Rudi Paskah Sianturi: Rudi Paskah from Indonesia  
00:26:58 Emily Kavanagh: Lost count but over 90 attended  
00:27:11 Nicole Rigelman: I've seen Emily at a lot of them :)  
00:27:17 David Barnes: Hello all from Northern Virginia. More than 10.  
00:27:18 Trena Wilkerson: HI Lori-So good to see you again!  
Well...almost see you! :-)

00:27:26 Susan Bardenhagen: Hi, from balmy 85 degrees today, northern Virginia, after frost warnings last year!

00:27:26 Cindy Bryant: Yes, lots of familiar friends! Glad you could join this BONUS session.

00:27:32 Tanya Landry: Good evening. Great to be here from Baton Rouge.

00:27:40 LeAnna Deveaux-Miller: Good Evening: From New Providence, THE BAHAMAS

00:27:41 Skip Fennell: Hi from Westminster, MD

00:27:46 Chonda Long: Hi Everyone!

00:27:50 Trena Wilkerson: Ready for this great BONUS session! So glad you are all here!

00:27:50 Patrick Vennebush: Day 97 3/4.

00:27:52 Lance Brauchla: Hello from IN.

00:27:55 Lisa Aldous: Hello from Arnold, Maryland! I've done about half live, working on watching the videos of the rest!

00:28:05 paloma carrera-Andino: Hi from El Paso, Tx

00:28:10 Saul Gonzalez: Good afternoon from Bakersfield, CA :)

00:28:14 Carol Matsumoto: Hi Cindy and Chonda!

00:28:15 Trena Wilkerson: @Lisa That is awesome!

00:28:16 Allyn Fisher: Hi from Garden Home, Oregon!

00:28:21 Cindy Bryant: Hi Carol!

00:28:23 Santosh Raj Aryal: hello from nepal

00:28:27 Jung Colen: hi from Nebraska!

00:28:30 Daniel Raguse: Hi from Portland OR

00:28:39 Chonda Long: Hi Carol!

00:28:43 Meg Susi: Hello from Old Saybrook, CT

00:29:04 Betty Stallings: Hello from Portsmouth, VA

00:29:08 Chonda Long: Hi Carol!

00:29:10 Carol Matsumoto: I always do.

00:29:13 Kathryn Dees: Hello! From Las Vegas...Kathryn Dees

00:29:14 Lorie Huff: @Trena, I enjoyed your virtual visit to Arkansas.

00:29:29 Tameillia Cain: Hello from Stone Mountain!

00:29:44 Kami Soverall: Hello from NYC

00:29:54 Iain: Hello from Trenton NJ

00:30:01 Wisnu Siwi Satiti: Hello everyone! Good morning from Indonesia

00:30:06 Daniel Irving: Hello from North Providence, RI!

00:30:13 Carol Matsumoto: Hi Marian nice seeing you again.

00:30:13 Cindy Bryant: So glad you all could join!

00:30:23 Sharon Black-MacKinnon: Good evening from New Brunswick Canada

00:30:30 Rolly Quilang: Rolly from Las Vegas Nevada

00:30:31 Skip Fennell: AND Marian is originally from Baltimore, MD and worked with L. Carey Bolster early in her career.

00:30:38 Trena Wilkerson: Thank you @Lori-It was an honor to be there and be a part of the conference in Arkansas!

00:30:40 Patrick Vennebush: @Beth, you can get the other two at the NCTM sort...

00:31:09 Carol Matsumoto: @nice

00:31:28 Cindy Bryant: Please, please, please...a joke from Patrick!

00:31:30 Carol Matsumoto: @Patrick nice seeing you again.

00:31:49 Patrick Vennebush: @Carol, nice to see you, too.

00:31:58 Nicole Rigelman: Thanks Beth :)!!  
00:32:07 David Barnes: Didn't know that.  
00:32:52 Trena Wilkerson: Fantastic books—Good Questions by Marian!  
00:32:52 Mary France Imperial: hello from Philippines  
00:32:55 Carol Matsumoto: @Roger nice seeing you. I don't think we've met.  
00:34:41 Patrick Vennebush: Googol  
00:34:47 Nicole Rigelman: infinity  
00:34:53 Mark Heasley: googol + 1  
00:34:53 Carole Bamford: infinity-1  
00:34:58 Aya Zvaigzne: ten to the eighteenth - the approximate number of seconds in the age of the universe  
00:35:16 Aya Zvaigzne: nanoseconds  
00:35:23 Patrick Vennebush:  $0 + \epsilon$   
00:35:27 Saul Gonzalez: planck constant  
00:35:31 Nicole Rigelman: Infinity - (infinity - 0.00000000000000000001)  
00:35:34 Mark Heasley: 1/google  
00:35:35 Maria Padiernos: 1/infinity  
00:35:40 Aya Zvaigzne: femti  
00:35:48 Iain: 1/2  
00:36:16 Susan Bardenhagen: 16  
00:36:16 Lisa Aldous: depends on where you put the 8  
00:36:19 Rachelle Wright: 4  
00:36:49 Susan Bardenhagen: 000, I didn't think "outside" the point/box!  
=)  
00:36:59 Patrick Vennebush: @Susan, I love it!  
00:37:01 Emily Kavanagh: I say 4 also  
00:37:04 Beth Kobett: Love that!  
00:37:14 Maria Padiernos: Pi would be good  
00:38:15 Iain: certain tasks create more opportunities for questions  
00:38:58 Patrick Vennebush: Indeed, Iain... I find that tasks in Marian's books create more opportunities than most!  
00:41:12 Maria Padiernos: Thanks Marin, good ideas!  
00:41:15 Patrick Vennebush: Thanks, Marian!  
00:41:44 Lorie Huff: Great information, Marian! Thank you!  
00:41:46 CHERYL ANN DOYLEE BARRAN: thanks Marian  
00:41:55 Anett Chicomny Pon: Marian's textbooks are genius! Thanks  
00:42:54 Beth Kobett: Love the gem idea!  
00:43:11 Trena Wilkerson: [www.nctm.org/PtA](http://www.nctm.org/PtA)  
00:43:20 Cindy Cliche: Use several of the Navigations lessons so interested in Gems.  
00:44:38 Mohamed T: Greetings from Mohamed  
00:44:50 Maria Padiernos: I would start with color  
00:44:59 Mohamed T: Wonderful  
00:45:03 Beth Kobett: Hi Joyce, Do you have a question?  
00:45:56 Patrick Vennebush: Natural differentiation!  
00:46:02 Patrick Vennebush: Love it.  
00:46:04 Carol Matsumoto: @Beth A neighbour just dropped off some homemade muffins.

00:46:19 Cindy Cliche: Size  
00:46:20 Kendra Edwards: Size  
00:46:20 Allyn Fisher: Pre-K and K would definitely sort by color.  
00:46:23 Sharon Black-MacKinnon: number of holes  
00:46:26 Lance Brauchla: size and color  
00:46:33 Delise Andrews: thickness  
00:46:33 CHERYL ANN DOYLE E BARRAN: number of holes  
00:46:34 Kristen LeGeyt: I use this same idea to introduce like terms in algebra to bring to abstract  
00:46:34 Tameillia Cain: holes  
00:46:35 Kami Soverall: color  
00:46:38 Lashonda Robbins: color  
00:46:42 Emily Kavanagh: I say both size and color also  
00:46:49 Pia Hansen: Buttons I like and the ones I don't in kindergarten  
00:46:52 Maria Padiernos: I sew so color is more of a fashion statement  
00:46:59 Joyce Hodge: shape  
00:47:01 Pia Hansen: Fancy and not fancy  
00:47:08 Carol Matsumoto: blue, not blue  
00:47:09 Susan Bardenhagen: The seamstress and artist in me would do color because that's how I would be able to use them.  
00:48:12 Patrick Vennebush: I love to see sample dialogue!  
00:48:23 Beth Kobett: love the conversation!  
00:49:21 Trena Wilkerson: So excited there are GEMS across grades including high school!  
00:49:35 Maria Padiernos: Actually I have seen this activity in biology class to explain species  
00:49:42 Cindy Bryant: Looking forward to all of these becoming available!  
00:49:43 Anett Chicomny Pon: Love these lessons of early learners. Thanks  
00:49:54 Daniel Irving: I agree! I cannot wait for the Grades 6-8 and 9-12 editions!  
00:50:17 Lorie Huff: Great information and great resources, Roger. Thank you!  
00:50:40 Faith Peddie: Hi Lorie! I hope you are doing well.  
00:51:11 Carol Matsumoto: Thanks Roger  
00:51:45 Lorie Huff: Hi Faith!  
00:52:05 Cindy Bryant: Love Eli's response.  
00:52:09 Maria Padiernos: Smart kid!  
00:52:25 Beth Kobett: Connects to Marian's question at the beginning!  
00:52:39 Susan Bardenhagen: This button box is near & dear to me. My nana's button tin was my first sorting & patterns playtime activity that I have since used for manipulative sets of 24 for teaching elementary lessons in fractions and 7th grade life science for intro to classification.  
00:52:46 Roger Day: Love the sequence example – it's so true.  
00:52:54 Beth Kobett: Love this @Susan!  
00:54:11 David Barnes: Here are the links!  
<https://tinyurl.com/RichTasks-100Squares>  
<https://tinyurl.com/RichTasks-Cover100>  
00:54:13 Faith Peddie: Here are two relevant links for this part of the

webinar: <https://tinyurl.com/RichTasks-100Squares>  
<https://tinyurl.com/RichTasks-Cover100>

00:54:20 Beth Kobett: <https://tinyurl.com/RichTasks-100Squares>  
<https://tinyurl.com/RichTasks-Cover100>

00:56:36 David Barnes: 10 squares - 8x8 and 9 - 2x2

00:56:45 Anett Chicomny Pon: 10

00:56:49 Lorie Huff: This is great!

00:57:02 Allyn Fisher: You can't do 2 or 3.

00:57:04 Nicole Rigelman: 20 squares

00:57:15 Marian Small: 28

00:57:18 Roger Day: After you mentioned  $n = 1$  square does work (10 by 10), I tried  $n = 2$ . That means we need two perfect squares whose sum is 100. Only pair is 36 and 64, but can't geometrically show that.

00:57:21 Anett Chicomny Pon: 8

00:57:26 Barbara Post: 20 1 9x9 and 19 1x1

00:57:27 Lisa Aldous: I've done 8 and 11

00:57:34 Marian Small: 52

00:57:57 Marian Small: 65

00:58:06 Jennifer Holland: 28

00:58:18 David Barnes: Perfect!

00:58:21 Kimberly Markworth: 10, 12

00:58:22 Kami Soverall: 18

00:58:22 Mark Heasley: 8 works

00:58:27 Allyn Fisher: I'm way more concrete than Roger, so I couldn't figure out how to do 2 squares that would fit in the grid.

00:58:34 Cindy Cliche: 10 1 8X8 and 9 2X2

00:58:34 Lorie Huff: 16

00:58:40 Cindy Bryant: 16

00:58:46 Mark Heasley: 8, 12, 16, 20 all work

00:59:08 Sharon Black-MacKinnon: 12

00:59:12 Anett Chicomny Pon: Cant see Mark's!

00:59:18 Sharon Dawkins: 12

00:59:20 Lisa Aldous: 19

00:59:28 Iain: 24

00:59:37 Jennifer Holland: 97

01:00:01 Sharon Black-MacKinnon: 52

01:01:00 Cindy Bryant: Cool!

01:01:08 Lorie Huff: 20

01:01:15 Pia Hansen: Great example of SMP 7 & 8

01:01:16 Sharon Dawkins: cool

01:01:25 Beth Kobett: Love this! So many entry points.

01:01:30 Jennifer Holland: Poor purple group!

01:02:22 Kimberly Markworth: Nice question.

01:03:26 Lorie Huff: Noticing, Wondering, and Investigating

01:03:30 Beth Kobett: Focusing on student thinking and ideas - very cool

01:04:22 Roger Day: Great questions to extend that task, Patrick.

01:05:24 Cindy Bryant: Love the tasks from all of you!

01:05:52 Lorie Huff: Thank you Patrick! Fun and engaging task!

01:06:03 Patrick Vennebush: Thanks, Lorie!

01:06:23 Iain: I started using rectangles instead of squares  
01:06:29 Pia Hansen: Or more than one category?  
01:06:59 Carol Matsumoto: @Patrick great listening to you again!  
01:08:06 Tameillia Cain: Love all the tasks!  
01:08:13 Carol Matsumoto: sort in more that one way  
01:08:13 Allyn Fisher: 4-year-olds would absolutely ignore your request to disregard color.  
01:08:25 Iain: The kids need some direction sometimes. If not they will just sit  
01:08:32 Patrick Vennebush: Thanks, @Carol.  
01:08:36 William Torres: Thank You!!!!  
01:08:52 Maria Padiernos: Visual learners will loss interest if COLOR is taken oute  
01:09:16 Beth Kobett: Please let us know if you also have questions.  
01:09:21 Pia Hansen: I loved the idea of non-examples too. Numbers that don't work?  
01:09:29 Roger Day: Great comments and suggestions, Marian. It so important to motivate students to do something, and then be ready to react. It's not only important, but so much more fun as a teacher.  
01:09:46 Carol Matsumoto: The automatic reaction for Ks to sort is by colour first.  
01:10:13 Maria Padiernos: I liked Eli's advice, 100 is big enough, not too big  
01:10:14 Saul Gonzalez: WOW!  
01:10:30 Pia Hansen: I agree Roger, because we all have students that need/want more options!  
01:10:46 Cindy Bryant: So very true Roger.  
01:11:10 Maria Padiernos: Fun is the key!!!  
01:12:06 Pia Hansen: I think the collaboration among peers is the best!  
01:13:50 David Barnes: YES!  
01:14:37 Maria Padiernos: I say the same thing!  
01:15:05 Daniel Raguse: Oh that I had these three people for math teachers!  
01:15:13 Iain: my students think I'm joking. I see something new and get all excited  
01:15:43 Jennifer Sauriol: everything I know about teaching I learned from my students  
01:15:46 Cindy Bryant: Thank you for saying that Marian, no one or task is perfect. Our reflective thinking and changes we make based upon what happens, are what makes richer tasks.  
01:15:59 David Barnes: It is always nice to have others to collaborate with, to bounce ideas off and co-create.  
01:16:24 Cindy Bryant: Making things better is exactly what happens Patrick.  
01:16:35 Trena Wilkerson: We need to give ourselves space and grace to grow as a mathematics teacher. (Francis Su!)  
01:16:42 Maria Padiernos: Teachers should also experience productive struggle.  
01:16:50 Patrick Vennebush: @Dan – I think we would've loved to have you as a student!  
01:17:00 Jennifer Sauriol: +1 Marie

01:17:11 Cindy Bryant: @Trena, TOTALLY agree with you and Francis Su!  
01:17:16 Lorie Huff: Yes @Trena and @Maria  
01:18:21 Roger Day: So true!  
01:18:27 Carol Matsumoto: Great questions are important.  
01:18:56 Nicole Rigelman: Following student thinking is one of the best ways we show we value them.  
01:18:57 Cindy Bryant: Anticipation...do the math, do the task!  
01:19:24 Iain: Being a special education teacher I was blessed to be able to collaborate with some true experts.  
01:19:36 Aya Zvaigzne: When you develop questions in advance, do you have some guiding principles/categories/templates to generate different types of questions?  
01:20:31 Maria Padiernos: That is why I chose F2F, the smaller classes makes teaching fun during this Covid time  
01:20:32 Cindy Bryant: Patrick, loved that you used the interactive slide for your problem.  
01:22:26 Iain: As a parent of 3 school age kids, I can't imagine not having the experience I have and trying to navigate through the daily assigned tasks.  
01:23:00 Delise Andrews: Love the idea of assigning pairs a cooperative task on a slide.  
01:23:24 Lorie Huff: Thank you for sharing that idea.  
01:24:08 Patrick Vennebush: Alex Trebek – another great Canadian!  
01:24:44 Carol Matsumoto: @Patrick Yes  
01:24:52 Cindy Bryant: Questioning is KEY!  
01:24:56 Susan Bardenhagen: Multi-tasking as usual. Nobody got final jeopardy tonight...  
01:25:15 Cindy Bryant: Love it @Susan. :-)  
01:25:43 Delise Andrews: It's not about presenting information - it's about finding out what students know and how that connects with what you want them to learn. :)  
01:25:50 Carol Matsumoto: Yes/no questions are closed  
01:25:55 Mohamed T: Thanks so much!!  
01:26:07 Anett Chicomny Pon: Really appreciate the information and message that questioning is key! Thank you panel members.  
01:26:10 Cindy Bryant: @Delise well said!  
01:26:16 Carol Matsumoto: Thanks everyone!  
01:26:19 Lindsay Hovermale: can you please reassign me to cc?  
01:26:32 Kimberly Markworth: Thank you, everyone! I enjoyed the tasks and the discourse!  
01:26:34 Trena Wilkerson: We all learn from productive struggle!  
01:26:37 Maria Padiernos: Your welcome  
01:26:40 Kristen LeGeyt: thanks so much everyone!  
01:26:43 William Torres: thanks  
01:26:54 Cindy Bryant: Great session! Thank you ALL so very much!  
01:26:55 Delise Andrews: Thanks to all the presenters!  
01:26:58 Mark Heasley: Thanks so much!  
01:27:03 Kathryn Dees: Thank you!!!  
01:27:04 Jennifer Holland: Thank you so much everyone! This was really enjoyable and informative.  
01:27:11 Nicole Rigelman: Thank you for sharing these ideas about good

tasks. Very helpful!!

01:27:13 Aya Zvaigzne: More books are now added to the wishlist :-)  
01:27:15 Sharon Black-MacKinnon: Thank you so much!!  
01:27:15 LeAnna Deveaux-Miller: Thanks very much  
01:27:24 Daniel Raguse: Thank you all!  
01:27:26 Jordan Jones: Thank you!  
01:27:27 Kendra Edwards: Thank you!!!!  
01:27:28 Lorie Huff: Thank you!  
01:27:29 Iain: Thank you  
01:27:34 Lori Bluemel: Thank you!  
01:27:34 Trena Wilkerson: Thank you Marian, Roger and Patrick! Great  
disussions and thank you Beth for fantastic facilitation of participant comments  
and questions!  
01:27:34 Cindy Cliche: Thanks so much!  
01:27:38 Kami Soverall: Thank you for sharing... more for me to share at work.  
01:27:42 Allyn Fisher: Dynamic!!  
01:27:42 ALEX QUYENVO: thanks all !  
01:27:43 Maria Padiernos: Thank you, please send the list of books, I  
want to get them all!  
01:27:46 Daniel Irving: Thank you all for such an incredible presentation!  
The tasks, ideas, and insights were very inspiring!  
01:27:49 Lisa Aldous: Thank you so much! So happy for this bonus session!  
01:27:49 Tameillia Cain: Very fun! Thank you!  
01:27:50 Trena Wilkerson: Thank you Stenhouse!  
01:28:08 Anett Chicomny Pon: I signed up!  
01:28:16 Aya Zvaigzne: Thank you enormously. It instills more questions :D  
in our minds!  
01:28:17 Tanya Landry: Thank you so much. Lots to ponder...  
01:28:22 Trena Wilkerson: Looking forward to the chat with Dr. Darden!  
01:28:25 Roger Day: Maria, send me your email, I'm at day@ilstu.edu  
01:28:26 Cindy Bryant: Dr. Darden is AWESOME!  
01:28:44 Jennifer Holland: Parent teacher conferences tomorrow night,  
so no conference for me tomorrow.  
01:28:46 Roger Day: Well, there it is!  
01:29:00 Wisnu Siwi Satiti: Thank you everyone! Such a great session.  
01:29:05 Mary France Imperial: Thank you so much!  
  
01:29:15 Annabella de guzman: Thank you!  
01:29:15 Anett Chicomny Pon: How long will these webinars be available?  
01:29:23 ALEX QUYENVO: could you put the names of those books again please  
! I'm trying to write them down  
01:29:26 Debora Keck: Thank you so much! God Bless You!Best Wishes:)  
01:29:27 Todd Smallcanyon: Thank you  
01:29:48 Lashonda Robbins: Thank you  
01:30:10 Sharon Dawkins: thank you this was wesome  
01:30:23 Emily Kavanagh: Thanks for an informative presentation.