

00:12:52 Stephanie Gruskin: NJ
00:12:55 Deirdre Bonini: New York
00:12:59 Toni-Ann Climenti: Long Island
00:13:00 Barbara Moda: New York
00:13:01 Kevin Dykema: Welcome from Mattawan, MI
00:13:01 Nicole Webb: ny
00:13:04 Susan Smith: Hi from NE Massachusetts!
00:13:06 Alison Jones: Tennessee
00:13:06 Edel Reilly: Pennsylvania
00:13:07 Cassandra Portelli: Newcastle Australia
00:13:11 Wendy Holt: Tennessee
00:13:14 Trena Wilkerson: Waco, TX!
00:13:14 Joseph Basile: Kingston, MA
00:13:15 Merrellyn Banks: Ohio
00:13:16 Westley Mildenhall: Another NYC
00:13:17 Tammy Dobler: Missouri
00:13:21 Mariuxi Andraca: New York
00:13:25 Simone Richardson: Another Australian :)
00:13:29 Cheryl Moffett: Chicago
00:13:31 Daniel Irving: Hello from North Providence, RI!
00:13:32 Heather McKee: Nashville, TN
00:13:33 Stephanie Toepfer: Nashville, TN!
00:13:33 Lydia Heilman: Wisconsin
00:13:37 Diana Rizzo: florida
00:13:43 Tran Trang: Marlboro, MA
00:13:46 Ken Krehbiel: Hello everyone, from Washington, D.C.
00:13:53 Tanya Antoniadis: Mesa,AZ
00:13:56 Paisly Champion: Decatur, Illinois
00:14:06 Ken Krehbiel: Hello everyone, from Washington, D.C.
00:14:07 Cindy Klages: Eufaula, AL
00:14:08 Elizabeth Dunn: Elizabeth Dunn Greenbelt, MD
00:14:12 Dawn Petty: Morgan Hill, CA
00:14:18 Amanda Ramgoolam: Queens NY
00:14:18 James McCue: Morganton, NC
00:14:20 Patricia Harris: Lawrenceville, Va
00:14:28 Michele Barker: Laguna Beach, CA
00:14:35 Cindy Klages: Eufaula, AL
00:14:37 Cheryl Moffett: Chicago
00:14:43 Stacey Bow: Aloha from Honolulu, HI
00:14:46 Merrellyn Banks: Ohio
00:14:50 Lydia Heilman: Wisconsin. Hi everyone!
00:15:03 Katherine Rivera Cordova: Katherine Cordova, NEW YORK.
00:15:08 Joan Albers: Ohio
00:15:11 Carol Matsumoto: Hi Chonda from Winnipeg.Home from a trip to
Thailand.
00:15:12 Cindy Tschudy: Elyria, Ohio
00:15:39 Andrew Mastorakis: New York!
00:15:40 Luis Villanueva Rata: in VT but from Madrid Spain
00:15:52 Marian Small: so nice to see you from so many places
00:16:00 Carol Matsumoto: Hi Chonda from Winnipeg. Home from a trip to

Thailand.

00:16:05 Stacey Bow: Aloha from Honolulu, HI
00:16:26 Melissa Giordano: new jersey, hey there!!
00:16:27 Carol Matsumoto: Hi Marian. Great seeing you!
00:16:48 Kathleen Felt: Hi from Indianapolis IN!
00:16:55 Elizabeth Dunn: My twin and I are working at the Greenbelt Library.
We have to leave around 7:45. Is this OK? Thank you.
00:17:01 Marian Small: of course
00:17:17 Trena Wilkerson: How was Thailand!
00:17:48 Elizabeth Dunn: Thank you. We have attended the other two workshops
and they are very useful. (Mary and Elizabeth Dunn)
00:17:54 Myla Simmons: Hello from New Jersey
00:18:28 Heather Noe: Hello from Missouri!
00:18:34 Chonda Long: Hi Carol!
00:18:44 John Gaines: Hello from California!
00:18:45 Carol Matsumoto: Thailand was wonderful!
00:18:54 Theresa Gibson: Hello from Tennessee!
00:19:34 Susan Smith: yes
00:19:36 Amanda Ramgoolam: True
00:19:36 Marizelle Ramos-Cristobal: yes
00:19:37 Kevin Dykema: yes
00:19:38 Mary Dodson: yes
00:19:39 Catherine Lantz: yes
00:19:40 Heather McKee: ture
00:19:40 Theresa Gibson: yes
00:19:41 Westley Mildenhall: Depends if 0 counts as whole number
00:19:41 Elizabeth Dunn: True
00:19:42 Macaul Bartruff: Yes. 30 is an even number
00:19:42 Tran Trang: yes
00:19:43 Cheryl Moffett: yes
00:19:45 Heather Noe: yes
00:19:45 Toni-Ann Climenti: yes
00:19:45 Diana Rizzo: False
00:19:45 Heather McKee: *true
00:19:46 Alexander Torgov: true
00:19:46 Francine Brown: true
00:19:47 Myla Simmons: Yes
00:19:47 Sandra Gardner: Yes
00:19:48 Joan Albers: yes
00:19:49 Patricia Harris: yes
00:20:02 Nicole Webb: yes
00:20:03 Merrellyn Banks: Yes
00:20:04 Susan Smith: Because two odds add up to an even, so the last
addend has to be even.
00:20:14 Kathie Minelli: yes
00:20:17 Macaul Bartruff: 30 is an even number
00:20:26 마얀: Either one or three of the numbers are even
00:20:57 Simone Richardson: Yes
00:20:58 Amanda Ramgoolam: Yes
00:21:02 Alexander Torgov: yes

00:21:02 Susan Smith: no
 00:21:03 Marizelle Ramos-Cristobal: yes
 00:21:03 Theresa Gibson: yes
 00:21:04 Macaul Bartruff: yes
 00:21:05 Kevin Dykema: yes
 00:21:06 Michele Barker: yes
 00:21:06 Catherine Lantz: No
 00:21:07 Heather Noe: yes
 00:21:08 Sandra Gardner: yes
 00:21:08 Barbara Moda: yes
 00:21:09 Westley Mildenhall: no
 00:21:10 Francine Brown: yes
 00:21:12 Kathie Minelli: yes
 00:21:18 Cindy Klages: Yes
 00:21:26 Merrellyn Banks: Yes
 00:21:28 Susan Smith: Could be $10 + 10 + 10$
 00:21:30 Westley Mildenhall: $10+10+10$
 00:22:30 Kathie Minelli: False
 00:22:30 Julius Mercer: No
 00:22:32 Marizelle Ramos-Cristobal: no
 00:22:33 Susan Smith: No $7 + 7 + 6$
 00:22:33 Sandra Gardner: no
 00:22:34 Barbara Moda: no
 00:22:34 Heather McKee: No, two can be odd
 00:22:36 Simone Richardson: No
 00:22:36 Merrellyn Banks: No
 00:22:37 마얀: no
 00:22:37 Diana Rizzo: no
 00:22:39 Elizabeth Dunn: No
 00:22:40 Cindy Klages: No
 00:22:41 Cheryl Moffett: no
 00:22:42 Heather Noe: no
 00:22:43 Francine Brown: no
 00:22:56 Westley Mildenhall: no
 00:22:59 Julius Mercer: No
 00:23:00 Marizelle Ramos-Cristobal: no
 00:23:01 Sandra Gardner: no
 00:23:01 Francine Brown: no
 00:23:03 Heather Noe: no
 00:23:03 Merrellyn Banks: No
 00:23:04 Susan Smith: No; $8 + 8 + 4$
 00:23:06 Macaul Bartruff: no
 00:23:07 마얀: no
 00:23:10 Cheryl Moffett: no
 00:23:17 Simone Richardson: No
 00:23:46 Sandra Gardner: no
 00:23:56 Merrellyn Banks: No
 00:23:59 Chris Schoff: No
 00:24:03 마얀: no
 00:24:03 Marizelle Ramos-Cristobal: no

00:24:03 Joan Albers: no
00:24:03 Cheryl Moffett: no
00:24:07 Francine Brown: no
00:24:12 Julius Mercer: Yes
00:24:14 Theresa Gibson: no
00:24:14 Susan Smith: No $9 + 8 + 13$ is a difference of 5
00:24:50 Westley Mildenhall: 1, 1, 28 is an example for D being true!
00:27:57 Kathie Minelli: 40 and 480 end in zeroes
00:27:59 Kathleen Felt: $40 \times 10 = 400$ $40 \times 2 = 80$
00:28:03 John Gaines: It increases by 11.... $40 \times 11 = 440$, then add 40 to
it to make 480
00:28:13 Mary Dodson: no
00:28:23 Julius Mercer: The sum of the digits go in multiples of 2
00:28:24 Westley Mildenhall: $40 + 110 = 150$, then keep adding 110s 260, 370,
480
00:28:25 Emily Weber: Yes - adding 11 on the calculator and hitting
=====

00:28:26 마얀: Difference between 480 and 40 must be divisible by 11 if 480
is to be in the pattern
00:28:28 Ashley Hulet: 440 is a multiple of 11
00:28:31 Julius Mercer: $4 + 0 = 4$
00:28:39 Julius Mercer: $5 + 1 = 6$
00:28:45 Julius Mercer: $6 + 2 = 8$
00:28:49 Julius Mercer: $7 + 3 = 10$
00:28:56 Julius Mercer: $4 + 8 + 0 = 12$
00:29:12 Luis Villanueva Rata: awesome answer!
00:30:01 Julius Mercer: Thank you!
00:31:34 Chris Schoff: good things happen in threes...
00:33:44 Ashley Hulet: 960
00:33:48 Renée Michaud: 960
00:33:48 Simone Richardson: 960
00:33:48 Marizelle Ramos-Cristobal: 960
00:33:49 Merrellyn Banks: 960
00:33:49 Susan Smith: 960
00:33:52 Caitlin Caruso: 960
00:33:53 Alyssa Furones: 960
00:33:54 Paisly Champion: 960
00:33:54 Westley Mildenhall: 960000000000
00:33:59 Westley Mildenhall: oh I forgot it's 3 digits
00:35:34 Ashley Hulet: Great way to talk about place value!
00:36:13 Renée Michaud: no
00:36:17 John Gaines: Yes
00:36:18 Marizelle Ramos-Cristobal: no
00:36:27 Alexander Torgov: no
00:36:31 Westley Mildenhall: To get from 50 to 120, multiply by 1 and
2/5. The product of 9 and 1 and 2/5 is not a whole number
00:36:38 Alyssa Furones: no
00:36:40 Macaul Bartruff: no
00:36:47 Nicole Webb: no
00:36:48 Merrellyn Banks: No

00:36:54 Ashley Hulet: No because 120 is not a multiple of 50 and 9 and 50 don't have common multiples

00:36:55 John Gaines: Oh the left has to be whole. Nvm

00:38:41 Emily Weber: truth- prism has to have edges divisible by 3

00:38:44 Susan Smith: agreed

00:38:47 John Gaines: ^^

00:39:07 Ashley Hulet: True...I'm thinking prism edges are multiples of three

00:44:07 Ashley Hulet: Love that!!!

00:45:20 Ashley Hulet: Yes because you hit every number exactly once. You are adding 3 each time but starting one number off in each pattern

00:46:04 Patricia Harris: Yes because you are hitting all the place value ranges so you will eventually hit 30's 300's so on.

00:46:19 Ashley Hulet: Yep You will have every integer represented above 3.

00:50:52 Simone Richardson: In any multiple of three you have a whole heap of 'groups of 3' if you put two multiples together everything will still be in 'groups of 3'

00:51:04 Susan Smith: You could place as many rows of 3 tiles each as you like, but it will always have 3 in each column.

00:51:16 Alexandra Perl: I agree! A visual would be lovely here

00:51:25 Ashley Hulet: If a number is a multiple of 3 I can count by 3's to get the number. So if I could count by 3 to get the first and the second I can count them all up by counting by 3's

00:56:21 Westley Mildenhall: $68 = 4 \text{ tens} + 28 \text{ ones}$, 32 blocks

00:57:06 Renée Michaud: $148 = 12 \text{ tenths}$, 28 units

00:57:13 Susan Smith: I think it's 148 with 43 blocks but I can't prove why yet.

00:58:58 Ashley Hulet: Love two truths and a lie!

01:00:37 Ashley Hulet: And great multiple choice testes taking practice haha

01:01:00 Susan Smith: 30 and 10

01:01:17 Westley Mildenhall: 10 and 10

01:01:32 Merrellyn Banks: 10 20

01:03:01 Emily Weber: 25 and 75

01:03:16 Emily Weber: 30 and 90

01:03:24 Westley Mildenhall: triple!

01:03:26 Susan Smith: X 3

01:03:26 Emily Weber: a and 3a

01:03:44 Elizabeth Dunn: Thank you. We learned very much. Elizabeth Dunn and Mary Dunn

01:05:55 Trena Wilkerson: The connection to noticing to proving and explaining why is powerful!

01:06:25 Cindy Klages: Yes, @Trena

01:06:39 Susan Smith: I love the focus on math making sense and being provable.

01:07:38 Amy Jackson: Marian, I like the diversity of questioning that allows the children to think outside the box!

01:08:01 Carol Matsumoto: Thanks Marian!

01:08:14 Amy Jackson: Yes! I teach kindergarten so that is where I was coming from!

01:08:19 Ashley Hulet: Love this! When do you ask these questions? Like

starting a unit, in the middle, at the end?

How do you think up these questions?

01:08:29 Michele Barker: I'm in intervention math so getting the students to prove it will be helpful to know they are understanding, that the light bulb is on.

01:08:46 Luis Villanueva Rata: I love these ideas!! Some the students who struggle with math get really challenge by questions like these

01:08:53 Cindy Klages: Can't wait to watch this again tomorrow.

01:08:58 Heather Noe: Thank you for pointing out that the thinking time of students takes longer. I wish administrators would realize this. We have to go slower to move into deeper thinking!

01:09:03 Tonya Burke: It definitely gets harder the older they get. that's why it's important for students to talk about their thoughts. this will promote reasoning

01:09:43 Sandra Gardner: This method allows students feel confident. Understanding that there is many different ways to see a problem. Not being afraid o express their ideas.

01:10:15 Alyssa Furones: This is my first year teaching math and I have quickly realized how important it is to make sense and make connections in math. This is something I wish I was taught earlier in school!!

01:10:35 Susan Smith: Love that example!

01:10:48 Stephanie Gruskin: Agree Heather

01:10:59 Heather Noe: Do you share the slides?

01:11:07 Marizelle Ramos-Cristobal: Yes please

01:11:09 Diana Rizzo: Yes please

01:11:09 Tran Trang: Yes please

01:11:10 Chavon VanHooks: Yes please share.

01:11:12 Renée Michaud: Many thanks.

01:11:13 Julius Mercer: Yes, thank you!

01:11:14 Luis Villanueva Rata: yes please!

01:11:14 Alyssa Furones: Yes please!!

01:11:14 Heather Noe: Yes please!

01:11:14 Ashley Hulet: Yes please! I'd love the slides!!

01:11:15 Kathleen Felt: Yes, please!

01:11:16 Merrellyn Banks: Yes please

01:11:18 Amy Jackson: Yes! I would like to have the slides!

01:11:18 Patricia Vargas: Yea, please :-)

01:11:18 Susan Smith: Really appreciate your time and your work, Marian!

Thank you!!

01:11:20 Caitlin Caruso: This was great! Thanks

01:11:22 LaShawn Digbohous: Slides please and thank you!

01:11:24 Danielle Clancy: Yes! Slides please! Thx, Marian. 🙏

01:11:24 EZGI ERGUL: Thank you

01:11:26 Alexander Torgov: Thank you so much.

01:11:27 Amy Jackson: Thank you, so very much!

01:11:28 Stephanie Gruskin: Thank you for sharing your knowledge!

01:11:28 Tran Trang: Thank you so much

01:11:30 Julius Mercer: What grades have you taught?

01:11:31 Trena Wilkerson: Thank you!

01:11:31 Marizelle Ramos-Cristobal: Thank you so much.

01:11:31 Patricia Vargas: * Yes, please :-)
01:11:34 Alyssa Furones: Thanks so much!!
01:11:34 Nicole Webb: thank you
01:11:34 Lydia Heilman: thank you so much for your time
01:11:35 Luis Villanueva Rata: Thank you!!!!
01:11:35 Joan Albers: Thank you!
01:11:36 Cheryl Moffett: Thank you so much! Yes, the slides would be very
much appreciated.
01:11:36 Merrellyn Banks: Thank you
01:11:37 Patricia Vargas: Thank you!
01:11:37 Mariuxi Andraca: Thank you
01:11:44 Macaul Bartruff: Thank you
01:11:50 Stephanie Toepfer: Thank you for your insight!
01:11:52 Ken Krehbiel: Thank you Marian.
01:11:53 Dawn Petty: Thank you!
01:11:57 Ashley Hulet: This is so great! Thanks!!! I have fun! So I know my
students could too!
01:12:20 Theresa Gibson: Thank you!
01:12:39 Kathleen Felt: Thank you for a fun and informative session!
01:12:42 Wendy Holt: Thank you!
01:12:45 Crystal Williams: Thank you for the strategies. I learned how
to re-energize my current students
01:12:50 Beverly Farahani: Really enjoyed this. Thanks
01:13:30 Andrew Mastorakis: Thank you so much!!