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[Jul 31, 1:14 PM] dhabecker: Hi there all! Duane here.

[Jul 31, 1:18 PM] dhabecker: Or use #VMS17!

[Jul 31, 1:20 PM] Guest3763: Looking forward to your message and presentation!

[Jul 31, 1:20 PM] dhabecker: Hopefully I'll stop blabbing and start the show! :-)

[Jul 31, 1:21 PM] Lauren Girard: I think I'm in the Warren camp

[Jul 31, 1:22 PM] dhabecker: Awesome! Welcome aboard! Me too!

[Jul 31, 1:24 PM] dhabecker: It should not help until I give MORE of a visual!

[Jul 31, 1:25 PM] Lauren Girard: they have a tapir at the MN zoo!

[Jul 31, 1:25 PM] dhabecker: The diagonals represent added value to the visual model.

[Jul 31, 1:29 PM] dhabecker: Welcome everyone! Feel free to post comments or questions. I'm happy to answer the best I can!

[Jul 31, 1:32 PM] Debbie Mendelson: HI! Hoping to get your handouts. Says only "50%" getting through. Thanks!

[Jul 31, 1:33 PM] dhabecker: I suspect that is because the server is becoming insanely overloaded. When things slow down, you will be able to successfully download it.

[Jul 31, 1:36 PM] dhabecker: Here is the direct link to the slides...

[Jul 31, 1:36 PM] dhabecker: <http://bit.ly/MMMMM-Duane>

[Jul 31, 1:37 PM] dhabecker: Instead of the EMPTY number line, you can consider using a LITERAL number line.

[Jul 31, 1:38 PM] dhabecker: Marzano...

[Jul 31, 1:38 PM] dhabecker: http://www.sde.ct.gov/sde/lib/sde/pdf/curriculum/cali/9_Essential_Instructional_Strategies.pdf

[Jul 31, 1:39 PM] dhabecker: Another Marzano resource...

[Jul 31, 1:39 PM] dhabecker: <http://www.middleweb.com/wp-content/uploads/2013/12/Marzanos-Nine.pdf>

[Jul 31, 1:40 PM] Shanina Lige: I can't hear anything. Is their volume?

[Jul 31, 1:40 PM] dhabecker: I'm hearing volume. Do you have a mute button pushed somewhere?

[Jul 31, 1:41 PM] Lorelei F: 51

[Jul 31, 1:42 PM] Lorelei F: Wow! Love it!

[Jul 31, 1:42 PM] dhabecker: Awesome! Thanks, Lorelei!

[Jul 31, 1:43 PM] dhabecker: Should students be REQUIRED to understand every method shared?

[Jul 31, 1:44 PM] Lauren Girard: I think if we expose the different methods to them, then they can choose which way works best for them. We can challenge them to use different methods but we don't need to dictate that they learn and master every method

[Jul 31, 1:44 PM] dhabecker: In an actual classroom, this number talk would take approximately 10 - 15 minutes.

[Jul 31, 1:45 PM] dhabecker: I think you make a good argument, Lauren!

[Jul 31, 1:45 PM] Lorelei F: I agree, Lauren

[Jul 31, 1:46 PM] dhabecker: Although...we do want students to settle on an efficient method that might lead towards a nice algorithm. Maybe?

[Jul 31, 1:47 PM] dhabecker: I guess I'm thinking about the possibility of a student choosing "counting cubes" for EVERY problem.

[Jul 31, 1:47 PM] Lauren Girard: Yes! We don't want them to count by 1's when they could more efficiently count by 5 or 10

[Jul 31, 1:47 PM] Lorelei F: Yes. As a 1st grade teacher I want kids to have experiences with different methods & tools. We discuss efficiency in strategies.

[Jul 31, 1:48 PM] Guest3970: 49

[Jul 31, 1:49 PM] dhabecker: Lauren and Lorelei...you two are spot on!

[Jul 31, 1:49 PM] Lorelei F: make a friendly number (20), hidden double

[Jul 31, 1:49 PM] dhabecker: Oooo...that is a good one. I suspect a student would use that method.

[Jul 31, 1:50 PM] Lauren Girard: for this $19+14$ problem I did: $19+1=20$, $14+1=15$, so $20+15=35$, then take the 2 extras away to get 33

[Jul 31, 1:51 PM] Lorelei F: Nice! I need to use that subtraction more.

[Jul 31, 1:51 PM] dhabecker: Lauren...that's a good one. How might you connect that method to a visual representation?

[Jul 31, 1:51 PM] Lauren Girard: I like working with 10s and 5s. And subtracting is a tricky thing for our little ones

[Jul 31, 1:52 PM] Lauren Girard: I teach Kinder :)

[Jul 31, 1:52 PM] Lauren Girard: I teach the cross out method, so I would draw dots and then cross out some, also putting the dots into groups of ten and 5

[Jul 31, 1:53 PM] dhabecker: The 5-groups and 10-groups are so important!

[Jul 31, 1:53 PM] Debbie Mendelson: I also like the "one more, one less" concept. $20+14=34$, but 19 is one less than 20 so it's 33.

[Jul 31, 1:53 PM] Lorelei F: I use tenframes a lot for modeling those friendly numbers.

[Jul 31, 1:54 PM] Lauren Girard: ten frames are so helpful

[Jul 31, 1:54 PM] Debbie Mendelson: Love ten frames!!

[Jul 31, 1:54 PM] dhabecker: That is another great method! How might you attach that method to a visual representation? I'm thinking maybe ten-frames?

[Jul 31, 1:54 PM] dhabecker: :-)
[Jul 31, 1:54 PM] dhabecker: The slide is showing the URL to my slides.
[Jul 31, 1:56 PM] Lauren Girard: hmm, I'm still seeing your presentation
[Jul 31, 1:56 PM] dhabecker: Down at the bottom of the slide
[Jul 31, 1:56 PM] dhabecker: Occasionally, it gets covered up.
[Jul 31, 1:56 PM] dhabecker: Here is a link to a variety of visual models...
[Jul 31, 1:56 PM] dhabecker:
https://docs.google.com/document/d/1415yQt41D09mczSF3SlTf3tCTHefAKffPtaO8bA7x_Y/edit?usp=sharing
[Jul 31, 1:57 PM] dhabecker: <http://bit.ly/MMMMM-Duane>
[Jul 31, 1:57 PM] Lauren Girard: got them
[Jul 31, 1:57 PM] dhabecker: Excellent!
[Jul 31, 1:57 PM] Rachel Beagan: Thank you for the number talks!!
[Jul 31, 1:58 PM] Lorelei F: I've got prepared & blank ten frame cards. I also sometimes draw the ten frames & use magnets on the white board to model adding & subtracting.
[Jul 31, 1:58 PM] dhabecker: That is a great idea!
[Jul 31, 1:59 PM] dhabecker: dhabecker@gmail.com
[Jul 31, 1:59 PM] dhabecker: Twitter: @dhabecker
[Jul 31, 2:01 PM] dhabecker: Feel free to contact me if you have any questions, comments, or concerns!
[Jul 31, 2:02 PM] Lauren Girard: Such a great presentation! It's getting me more geared up for school in the fall, thanks!
[Jul 31, 2:02 PM] Lorelei F: Yes!
[Jul 31, 2:02 PM] edugator93: Love engageny! I used it with my 5th graders
[Jul 31, 2:16 PM] Rachel Beagan: Thank you, Duane!
[Jul 31, 2:16 PM] Lorelei F: Thank you Duane!
[Jul 31, 3:40 PM] Betty Green: Love Number Talks
[Aug 1, 8:19 AM] Tracy Roeser Casey: Number Talks are the best!!
[Aug 1, 8:32 AM] Tracy Roeser Casey: I work for Lake Elsinore! Explain Everything is great!
[Aug 1, 8:33 AM] Tracy Roeser Casey: Thank you so much! It will help me take my Number Talks to a new level!
[Aug 1, 9:01 AM] Myra Collins: I don't know if anyone will see this, but I have appreciated this session. The number talk was interesting. I can see allowing the children to share their own methods but at times I can see pulling out all these different methods. I'm not sure I would do this every time, in the interest of direct instructional time, but it is very definitely worth doing regularly. Thanks for sharing.
[Aug 1, 9:26 AM] themathgirl: Anyone listening using Engage ??
[Aug 1, 10:02 AM] Megundlach: Number talks are a game changer!
[Aug 1, 10:53 AM] coolteacher2: "Math IS more than getting the right answer!" So important in giving students ownership to develop their confidence. :)
[Aug 1, 2:16 PM] Guest4943: very helpful ideas- thank you!
[Aug 2, 4:28 AM] Anna Puryear: I have been doing number talks, but I love bringing a different level to them.
[Aug 2, 10:48 AM] : Fantastic!
[Aug 2, 7:08 PM] Katie: This was a fantastic presentation! It really has me thinking differently about my classroom instruction and how to help students visualize the problems we're working on. Thank you!
[Aug 3, 11:45 AM] Guest8236: Number talks seem to be very effective and gives students' ownership in the learning.
[Aug 3, 2:57 PM] Nan: So much great info-I can't wait to explore further!
[Aug 4, 4:14 PM] Guest4604: Great information and ideas!
[Aug 4, 5:15 PM] Guest6548: Fantastic! Great presentation and engaging presenter!
[Aug 5, 6:20 PM] Guest1405: Wow!
[Aug 5, 6:26 PM] Isabel Mitchem: I LOVE incorporating Number Talks!
[Aug 7, 1:16 PM] Bonnie Cassivi Murphy: 33
[Aug 7, 2:07 PM] Bonnie Cassivi Murphy: Love how he tied everything into the learner leading the learner!!!
[Aug 7, 3:04 PM] Guest9332: Do students get overwhelmed with too many models and confuse them? Especially our special needs students?
[Aug 8, 7:47 AM] Guest6047: I love the number talks and will be using them!