

<html><head></head><body><pre style="word-wrap: break-word; white-space: pre-wrap;">

[Jul 31, 10:34 AM] Deb K: Love Graham's multiplication and division progression videos. SO worth the time to view them.

[Jul 31, 10:38 AM] Krista M: The oranges are quartered

[Jul 31, 10:38 AM] lfillat1: You put wedges into bowl

[Jul 31, 10:39 AM] lfillat1: Why did you cut the oranges

[Jul 31, 10:39 AM] Guest2544: Wedges in a bowl, and some were out

[Jul 31, 10:39 AM] Ken Sarber: How many orange wedges are in the bowl?

[Jul 31, 10:39 AM] Ken Sarber: 12

[Jul 31, 10:39 AM] Shannon: Why does joe have cards

[Jul 31, 10:39 AM] lfillat1: 16

[Jul 31, 10:39 AM] Deb K: How many pieces are in the bowl?

[Jul 31, 10:40 AM] Krista M: 12

[Jul 31, 10:40 AM] Shannon: what kind of cards does he have

[Jul 31, 10:40 AM] Ken Sarber: Are adding wedges to the bowl or taking wedges out of the bowl?

[Jul 31, 10:40 AM] Krista M: FYI - Shannon he's live and we are on the oranges

[Jul 31, 10:41 AM] Shannon: Sorry Krista I don't know how to get to where everyone is

[Jul 31, 10:41 AM] Ken Sarber: 20 wedges

[Jul 31, 10:41 AM] toniwalery: some oranges stay in the bowl - some are leaving the bowl

[Jul 31, 10:41 AM] lfillat1: 20

[Jul 31, 10:41 AM] Krista M: Expand your screen and use your keyboard arrows has been working. good luck :)

[Jul 31, 10:41 AM] Krista M: 20

[Jul 31, 10:42 AM] Deb K: 20 wedges

[Jul 31, 10:42 AM] Guest2544: 20

[Jul 31, 10:42 AM] Myra C: 21

[Jul 31, 10:43 AM] Krista M: My 5th graders would appreciate this

[Jul 31, 10:43 AM] lfillat1: grade 3

[Jul 31, 10:43 AM] Deb K: 5th

[Jul 31, 10:44 AM] Guest2837: 20

[Jul 31, 10:44 AM] Guest8725: How many pieces are there?

[Jul 31, 10:44 AM] Myra C: 20

[Jul 31, 10:44 AM] Guest8725: 14?

[Jul 31, 10:45 AM] Guest8725: How many oranges did you use?

[Jul 31, 10:45 AM] Guest5806: I use this "Cover up" strategy with my kids on the 5 day word problem. The numbers are not given until day 3 or 4 in the process, so they focus on the problem, what is going on, and not just the numbers.

[Jul 31, 10:46 AM] Renee Bailey: Good Morning

[Jul 31, 10:46 AM] Guest8725: 20 wedges

[Jul 31, 10:47 AM] Margie: Yes...I finally am connected!

[Jul 31, 10:47 AM] Ken Sarber: Show how math works in real life situations

[Jul 31, 10:47 AM] Guest8725: 3rd

[Jul 31, 10:48 AM] qawilson: the arrows aren't working for getting me caught up in the presentation - suggestions?

[Jul 31, 10:48 AM] Krista M: Use concrete examples so the students can manipulate the problems

[Jul 31, 10:48 AM] Deb K: Creating a visual representation of some sort.

[Jul 31, 10:48 AM] Myra C: I received the certificate of completion, but not the handouts. Does anyone have a direct link to the handouts?

[Jul 31, 10:49 AM] Guest8725: Not yet

[Jul 31, 10:51 AM] Guest5621: my link also went to the certificate

[Jul 31, 10:52 AM] Renee Bailey: How many did he start with

[Jul 31, 10:52 AM] Guest8725: using objects, pictures,

[Jul 31, 10:53 AM] DinaOBrien: i got the certificate too-no handouts

[Jul 31, 10:53 AM] Sandra Monica: fractions or pieces of wholes

[Jul 31, 10:53 AM] Myra C: He started with five whole oranges.

[Jul 31, 10:54 AM] Guest9908: oranges are all quartered

[Jul 31, 10:55 AM] Sandra Monica: 12

[Jul 31, 10:55 AM] Guest9908: why are the oranges quartered?

[Jul 31, 10:56 AM] Sandra Monica: how many oranges are used?

[Jul 31, 10:56 AM] Guest9908: 12

[Jul 31, 10:56 AM] Sandra Monica: 20 wedges

[Jul 31, 10:56 AM] danielle1: 20

[Jul 31, 10:57 AM] qawilson: 12

[Jul 31, 10:57 AM] Guest9908: How many whole oranges were there?

[Jul 31, 10:57 AM] Nicolette McDavid Lesniak: where are the numbers?

[Jul 31, 10:57 AM] lauri: 17

[Jul 31, 10:57 AM] Guest7680: Did he lose some cards?

[Jul 31, 10:58 AM] ColetteWhite25: 20 wedges 5x4

[Jul 31, 10:58 AM] Sandra Monica: 2nd

[Jul 31, 10:58 AM] Guest9908: 20

[Jul 31, 10:58 AM] Guest7680: where did he get them?
[Jul 31, 10:58 AM] Sandra Monica: depends if you want to focus on addition, multiplication, or division
[Jul 31, 10:58 AM] Renee Bailey: go with 3rd and 4th
[Jul 31, 10:58 AM] Gina McAllister: Is this one live?
[Jul 31, 10:58 AM] ColetteWhite25: 3rd
[Jul 31, 10:59 AM] lauri: How many whole oranges are in there?
[Jul 31, 10:59 AM] qawilson: 20
[Jul 31, 10:59 AM] Myra C: 5 whole oranges
[Jul 31, 10:59 AM] Gina McAllister: Take some away and put some back so add and subtract
[Jul 31, 10:59 AM] lauri: $5 \times 4 = 20$
[Jul 31, 10:59 AM] Guest9908: third mulitplication
[Jul 31, 10:59 AM] Guest1916: When opening the handouts, Norton gives me a warning about it being a dangerous site. Anyone else with this issue?
[Jul 31, 11:00 AM] Renee Bailey: I haven't opened handouts yet
[Jul 31, 11:00 AM] lauri: no
[Jul 31, 11:00 AM] Margie: I think even KDG could do some basic stories with this and come up with 5 oranges
[Jul 31, 11:00 AM] qawilson: any k-6
[Jul 31, 11:00 AM] Gina McAllister: 12
[Jul 31, 11:00 AM] lauri: I think it could be used 1-4
[Jul 31, 11:01 AM] Renee Bailey: I did not get any warning
[Jul 31, 11:01 AM] Cathy Dalimonte: Is there enough to share with the class?
[Jul 31, 11:03 AM] Guest8637: 20 pieces
[Jul 31, 11:03 AM] Bobby Song: how many oranges are in the bowl
[Jul 31, 11:03 AM] Guest8637: Fourth grade
[Jul 31, 11:03 AM] ColetteWhite25: Visualize what the problem means
[Jul 31, 11:03 AM] Bobby Song: 20
[Jul 31, 11:04 AM] Guest1632: 20
[Jul 31, 11:04 AM] Ken Sarber: About 5 blocks
[Jul 31, 11:04 AM] Guest1930: 12
[Jul 31, 11:04 AM] Guest9908: Using a visual to get to the answer
[Jul 31, 11:04 AM] Guest1632: 3,4
[Jul 31, 11:04 AM] Heather Vaughn: 3-4
[Jul 31, 11:05 AM] Cathy Dalimonte: all
[Jul 31, 11:05 AM] qawilson: using a visual or physical representtion to solve
[Jul 31, 11:05 AM] Guest1930: 20
[Jul 31, 11:05 AM] Bobby Song: 20
[Jul 31, 11:05 AM] HaalandAmy: What I said the Weight of each block?
[Jul 31, 11:05 AM] lauri: I think it is putting a visual to math--so that we can picture it in our minds.
[Jul 31, 11:06 AM] Myra C: How many blocks will balance the apple?
[Jul 31, 11:06 AM] Guest2837: 6
[Jul 31, 11:06 AM] Renee Bailey: Putting a visual to math really helps students understand it
[Jul 31, 11:06 AM] Bobby Song: 5
[Jul 31, 11:07 AM] Renee Bailey: Also making math relevant helps students
[Jul 31, 11:07 AM] Myra C: How heavy is each block?
[Jul 31, 11:08 AM] Guest8622: one more than there was before
[Jul 31, 11:09 AM] Guest8725: H0w many blocks will balance the scale with the apple?
[Jul 31, 11:09 AM] Guest8725: 15
[Jul 31, 11:09 AM] Guest1632: show math thinking in efficient and effective drawings or pictured or manipulatives
[Jul 31, 11:10 AM] Guest8146: 20 orange wedges
[Jul 31, 11:10 AM] Myra C: I got it doing a bar model! Drawings help.
[Jul 31, 11:11 AM] Bobby Song: represent math in different ways
[Jul 31, 11:12 AM] Renee Bailey: I like the video of the progression from each grade
[Jul 31, 11:12 AM] Myra C: Definitely. Different kids need different ways. So much better than when my daughter would say, "That's not the way the teacher told us to do it!"
[Jul 31, 11:14 AM] Renee Bailey: I always show my students as many as as possible to solve a problem because kids learn in so many different ways that way when they go home it can help with their parents helping them with their homework
[Jul 31, 11:14 AM] qawilson: is the video available elsewhere? if so what is the name of it and where can I find it? I would like to use with other staff
[Jul 31, 11:17 AM] Myra C: <https://gfletchy.com/progression-videos/> He also has number sense, addition and subtraction, and others. I think there are about five.
[Jul 31, 11:17 AM] qawilson: thank you!
[Jul 31, 11:17 AM] Renee Bailey: thank you
[Jul 31, 11:18 AM] Guest6247: thank you
[Jul 31, 11:19 AM] Margie: Love the use of these videos!
[Jul 31, 11:20 AM] Guest9908: How many blocks do you need to add to make it balance
[Jul 31, 11:20 AM] Guest9908: 8
[Jul 31, 11:22 AM] Renee Bailey: how many blocks do you need to add to make it balance?

[Jul 31, 11:22 AM] Brigette: how many slices of orange are in the bowl?
[Jul 31, 11:22 AM] lauri: 10
[Jul 31, 11:22 AM] Brigette: 12
[Jul 31, 11:23 AM] Staci Gross Thurwalker: 20
[Jul 31, 11:23 AM] Staci Gross Thurwalker: quarters are in 4 pieces
[Jul 31, 11:23 AM] Staci Gross Thurwalker: love this example! 3rd for sure!
[Jul 31, 11:23 AM] qawilson: 14
[Jul 31, 11:23 AM] Brigette: How many oranges did you cut
[Jul 31, 11:24 AM] Staci Gross Thurwalker: He said 5 oranges
[Jul 31, 11:25 AM] Gina McAllister: a lot
[Jul 31, 11:25 AM] kbutler: guys, the video isn't live when you enter the page... it starts from the beginning... so everyone in the chat is watching the video at a different time... in case you're wondering why other people are posting what they're posting.
[Jul 31, 11:26 AM] Staci Gross Thurwalker: Kbutler good to know!! Thought we needed to really look at our teachers if we are all coming up with different math answers :}
[Jul 31, 11:26 AM] kbutler: i was so confused too when i first was reading until someone pointed that out in the other session. lol
[Jul 31, 11:28 AM] Guest1930: How many cubes equal 1 apple?
[Jul 31, 11:28 AM] Guest7680: About 3 cubes = 1 ounce, so about 15 or 14 cubes
[Jul 31, 11:30 AM] Guest1632: volume?
[Jul 31, 11:31 AM] qawilson: Thanks Graham!
[Jul 31, 11:34 AM] Renee Bailey: Great sessions.
[Jul 31, 11:38 AM] Guest1632: that student "ohhhhh!" is awesome
[Jul 31, 11:42 AM] Guest8146: Thanks Graham! Gave me lots to think about!
[Jul 31, 11:43 AM] Graham Fletcher: Awesome. I'd love to hear how it goes.
[Jul 31, 11:45 AM] Staci Gross Thurwalker: 14 maybe
[Jul 31, 11:47 AM] Guest6247: First, very informative session! Second how do I get the certificate?
[Jul 31, 11:50 AM] Graham Fletcher: Thanks #6247. In regards to your question...that would be a Christina question. You can email her at info@buildmathminds.com
[Jul 31, 11:52 AM] Guest8146: At end of video it tells you to click to Get your certificate. Click it provide your information and feedback and submit. It will be emailed to you.
[Jul 31, 11:53 AM] Guest6247: I tuned in late due to technical difficulties with the site. Did not see the "click" button
[Jul 31, 11:54 AM] Staci Gross Thurwalker: it should come up on the last slide at the very end
[Jul 31, 12:03 PM] Guest1257: Being able to show math reasoning by drawing a picture or diagram
[Jul 31, 1:11 PM] Guest2010: 16
[Jul 31, 1:27 PM] Guest545: counting orange wedges
[Jul 31, 1:28 PM] Guest545: 12
[Jul 31, 1:32 PM] dcrescitelli: How many whole oranges are in the bowl? are those quarters of an orange... or thirds?
[Jul 31, 1:33 PM] dcrescitelli: 12?
[Jul 31, 3:08 PM] HSherman: 15
[Jul 31, 3:23 PM] 18: 18
[Jul 31, 6:54 PM] Guest3312: Love these visuals!
[Jul 31, 6:54 PM] Guest3312: The thinking and wondering can be throughout elementary
[Jul 31, 6:56 PM] Guest3312: Very important connection that I'm not sure I've made explicit before
[Jul 31, 6:57 PM] Guest3312: Great distinction in naming the fraction $20/4$ as $20 - 1/4s$
[Jul 31, 7:23 PM] Guest5065: Thank you for your fantastic ideas!
[Jul 31, 7:24 PM] Guest3312: Love hearing kids have "A-ha's" through their discoveries and justifications!
[Jul 31, 8:08 PM] hrigatz: Bowl of oranges is a great representation of equivalence.
[Jul 31, 8:09 PM] hrigatz: 14
[Jul 31, 8:31 PM] Guest3020: Finally caught up with you hrigatz! 14 it is!
[Aug 1, 3:06 AM] gavin: Oranges, the wall and the tiles part, the orange wedge by itself and then in the bowl.
[Aug 1, 3:06 AM] gavin: How many wedges in the bowl ?
[Aug 1, 3:07 AM] gavin: About 16
[Aug 1, 3:09 AM] gavin: 5 oranges 4 wedges per orange if they are quarters then 20 wedges in the bowl
[Aug 1, 5:05 AM] Guest3685: orange slices in a bowl
[Aug 1, 5:06 AM] Guest3685: How many wedges are in the bowl?
[Aug 1, 5:07 AM] Guest3685: 12
[Aug 1, 5:09 AM] Guest3685: $5 \times 4 = 20$ wedges
[Aug 1, 5:10 AM] Guest3685: 2nd grade
[Aug 1, 5:15 AM] Guest3685: draw representations/bar models, arrays
[Aug 1, 8:18 AM] kimberw5226: Graham Fletcher rocks! #VMS17
[Aug 1, 8:46 AM] Guest657: parts of a whole orange
[Aug 1, 8:47 AM] Guest657: how many whole oranges
[Aug 1, 8:56 AM] kimberw5226: Should we refer to denominators and numerators? Does this promote the idea of separate numbers instead of the fraction being a number in and of itself?

the idea of separate numbers, instead of the fraction being a number in and of itself.

[Aug 1, 8:57 AM] kimberw5226: NO BUTTERFLIES!! Thank you!!

[Aug 1, 9:02 AM] Guest1014: Do you do the 3 act tasks as whole a group activity or can they be used for partner practice?

[Aug 1, 11:21 AM] Guest8578: 20

[Aug 1, 11:25 AM] Guest8578: 2nd and 3rd

[Aug 1, 11:39 AM] Guest4040: 20

[Aug 1, 1:59 PM] Guest1995: This was very helpful in understanding what you meant by progression but see how important it is to understand how a concept evolves through the grades and how rich open tasks can help determine where a student is at in their thinking. I am assuming you would give the task to students individually instead of partnered work if you were using this as assessment for learning.

[Aug 1, 4:32 PM] CrisS: I really enjoyed this presentation. It was vey eye opening.

[Aug 1, 4:35 PM] CrisS: The Making Sense Series video was great. It shows we really need to build the connections and introduce key vocab in kindergarten as it builds every year off of the previous year. We all need to be in the same page with vocabulary. Stay that exposure early even if they can't read or don't know the meaning write yet, they get exposed to it.

[Aug 1, 4:38 PM] CrisS: I know I will be doing word problems commonest different this year. I love the "what do you notice" and "what do you wonder" techniques as it takes their focus away from the numbers. We need to make sure we make these problems related to the real world and what these kids know. If they aren't interested in the problem bc of the content, then it does no good since they are no longer focused. I will definitely be making sure my content is relevant to my students.

[Aug 1, 5:36 PM] pearse_margie: NOOOOO.... CUBES is a nightmare!!

[Aug 1, 5:40 PM] pearse_margie: Totally agree! Students zero right into the numbers removed from the context

[Aug 1, 6:42 PM] Melanie Delahoussaye: This was a great presentation! Thank you!

[Aug 1, 7:40 PM] Guest7008: Great presentation, and although he only went up to 5th grade, I can definitely use the oranges in sixth grade as a ratio problem.

[Aug 1, 10:30 PM] Guest961: How many wedges are in the bowl?

[Aug 1, 10:30 PM] Guest961: Estimate 15

[Aug 1, 10:32 PM] Guest961: 20 wedges

[Aug 1, 10:35 PM] Guest961: Breaking the problem down into manageable parts.

[Aug 2, 7:31 AM] Guest7278: who are the oranges for?

[Aug 2, 7:31 AM] Guest7278: 14

[Aug 2, 9:34 AM] nDidi: what color was his bag?

[Aug 2, 9:34 AM] nDidi: Who is Joe?

[Aug 2, 9:36 AM] nDidi: I notice that slices of oranges

[Aug 2, 9:36 AM] nDidi: part of wholes

[Aug 2, 9:37 AM] nDidi: Is the bowl big to contain how many?

[Aug 2, 9:37 AM] nDidi: 30 orange wedges

[Aug 2, 9:38 AM] nDidi: how many wedges are there?

[Aug 2, 9:39 AM] nDidi: 20

[Aug 2, 9:40 AM] nDidi: 3-6

[Aug 2, 11:37 AM] Jennifer Mummert: The oranges were in and out of the bowl.

[Aug 2, 11:38 AM] Jennifer Mummert: How many orange slices are in the bowl?

[Aug 2, 11:38 AM] Jennifer Mummert: 13

[Aug 2, 11:40 AM] Jennifer Mummert: 20

[Aug 2, 5:22 PM] Guest8034: 15

[Aug 2, 5:24 PM] Guest8034: how many wedges make up one whole orange

[Aug 2, 5:24 PM] Guest8034: 20

[Aug 2, 5:24 PM] Guest8034: 5x4

[Aug 2, 9:01 PM] Nan: We have been doing 3 Act Tasks with K-5 classes since January; they were so successful that we have added them into our math pacing guides for this year. Thanks, Graham!

[Aug 2, 9:15 PM] Nan: And yes, we have tons of high five moments and just as many in 5th as in K:)

[Aug 2, 9:21 PM] Nan: Can't wait to spend more time with your fraction progressions

[Aug 3, 7:42 PM] vms17: Could you clarify how $\frac{1}{4}$ can be greater than $\frac{1}{2}$. For my understanding $\frac{1}{2}$ is greater. I love your webinar. Thanks.

[Aug 3, 11:37 PM] Christina Tondevold: VMS17, $\frac{1}{4}$ can be greater if the whole is larger. For example $\frac{1}{4}$ of a million is larger than $\frac{1}{2}$ of 100.

[Aug 5, 8:31 AM] Guest1842: What's on the sticker? How many orange segments?

[Aug 5, 8:31 AM] Guest1842: 12

[Aug 6, 2:49 PM] Denise Marie: 12

[Aug 6, 2:50 PM] Denise Marie: 20

[Aug 6, 7:51 PM] Heidi: I love the advice "Be less helpful"

[Aug 7, 11:57 AM] kcombs66: Key words in math do not help students! #VMS17

[Aug 7, 12:47 PM] Guest9332: There are oranges then one more on counter then add one on the counter then both go in the bowl. So we have multi-step things happening.

[Aug 7, 12:47 PM] Guest9332: how many oranges made the slices?

[Aug 7, 12:48 PM] Guest9332: 12-15

[Aug 7, 12:49 PM] Guest9332: how many wedges in bowl

[Aug 7, 12:50 PM] Guest9332: 20
[Aug 7, 12:51 PM] Guest9332: 3rd grade to introduce quarters, 4th/5th to look at division
[Aug 7, 12:57 PM] Guest9332: Using real world objects to understand a problem and also use math to answer things about real life things
[Aug 7, 1:19 PM] Guest9332: which weighs more? 1 apple or 3 of these blocks
[Aug 8, 10:49 PM] Guest1557: Thank you so much for sharing these ideas! This really helped me to get pumped up for the next level of fractions with my students. I love the open-ended task examples!