<b>Description:</b> Clip 4 of 4, Testing the	Transcriber(s): Yankelewitz, Dina
doubling conjecture	Verifier(s): Yedman, Madeline
Parent Tape: Building Large Models to	Date Transcribed: Spring 2009
Show Equivalence: An Exploration	Page: 1 of 6
(classroom view)	
Date: 1993-10-07	
Location: Colts Neck Elementary School	
Researcher: Professor Carolyn Maher	

9.1.405	CT:	I don't want to break your train of thought, but what's happening here?
9.1.406	Erik:	Well, see, we took the three oranges and the dark green to be one, and then the four blues to be um, the fourths, and down here, we took three blues, and then, uh, nine whites, and we took three whites which would go to that one, so we're making a new rod because if you had one it'd be an orange. If you had two other ones it'd be bigger than an orange so we're making a new rod there and we do the same here and the same here, so we're making new rods for thirds.
9.1.407	CT:	Ok.
9.1.408	Erik:	Understand?
9.1.409	CT:	Yes, I do.
9.1.410	Erik:	[laughs] That's the only problem. Actually, no, I do! He was calling two browns, two blacks, and two blues, a one
9.1.411	David:	Yeah, because that was, that was the other problem.
9.1.412	Erik:	Yeah, and then the light greens are the twelfths and those are the
9.1.413	David:	I think that would be sixteen, though.
9.1.414	Erik:	Yeah, and the reds would be the twenty-four, twenty-fourths, the reds would be the twenty-fourths, and the white would be the forty- eighths.
9.1.415	T/R 1:	[maybe to someone else?] What did you get the difference to be?
9.1.416	Erik:	Because he, he just doubled everything.
9.1.417		What are the thirds? What are the fourths?
9.1.418	Erik:	Exactly.
9.1.419	David:	I'm just working on mine.
9.1.420	Erik:	He's working on that. David, that's basically what we came here for.
9.1.421	CT:	Yeah, I do, that's very interesting! Do you understand how you would get fourths and thirds out of that?
9.1.422	Erik:	David, isn't this basically what we came for?
9.1.423	Alan:	He's getting it lined up, trying to get it lined up.
9.1.424	Erik:	Yeah, he's messing up. So basically, we don't need this, all this. We could just push that aside, and work with David's. Isn't this basically
	_	what we came here for, David?
9.1.425	David:	Yeah, I know, that's why-
9.1.426	Erik:	[laughs] And everyone is trying to make another model!
9.1.427	David:	I know cuz I told-
9.1.428	CT:	Basically you came here for what?
9.1.429	Erik:	We basically came to discuss David's original model.
9.1.430	CT:	And then they built something else?

Description: Clip 4 of 4, Testing the	Transcriber(s): Yankelewitz, Dina	
doubling conjecture	Verifier(s): Yedman, Madeline	
Parent Tape: Building Large Models to	Date Transcribed: Spring 2009	
Show Equivalence: An Exploration	Page: 2 of 6	
(classroom view)		
Date: 1993-10-07		
Location: Colts Neck Elementary School		
Researcher: Professor Carolyn Maher		

9.1.431	Erik:	Yeah, we forgot the whole point why we came here.
9.1.432	David:	Yeah, I told everybody, and then she said to go over there and build
		David's model.
9.1.433	Erik:	And we lost the point for some reason.
9.1.434	CT:	Ok, but I don't think David did this.
9.1.435	Erik:	No, David's like here, let me do this.
9.1.436	CT:	David, how about you explain to me what you're doing so
		[inaudible] your thinking.
9.1.437	David:	Well, before Meredith built this other thing and then she had the reds were one twelfth and then the whites were one twenty-fourth, but then
9.1.438	Erik:	We built that, me and alan built that and then they did it, and then
9.1.439 52:53	David:	Meredith did too, but then, uh, so then, uh, she thought to think of a bigger model, then I thought that then maybe the greens would be something like one twelfth, but then we figured out that would be sixteenths, then I put them up there
9.1.440	CT:	Alright
9.1.441	David:	And
9.1.442	Erik:	No it wouldn't this one still has some room. I think.
9.1.443	David:	No, it's just that this [inaudible]. Well um, and then I thought the reds would be one twenty-fourth and the whites might be one forty-eighth. Cuz I just doubled it.
9.1.444	CT:	Did it work out? Did it work out?
9.1.445	David:	What?
9.1.446	CT:	Did it work out? I mean, did you, did you find what you thought you would find?
9.1.447	David:	Well, not really, because this one was one sixteenth, um, one sixteenth.
9.1.448	CT:	And the reds came out to?
9.1.449	David:	I was working on that right now.
9.1.450	CT:	Oh, ok.
9.1.451	Erik:	What about the purples? How about the purples? The purples could come out to be.
9.1.452	David:	Yeah they might be the-
9.1.453	Erik:	I think the purples would be, the purples would probably be twelfths.
9.1.454	David:	Alright, so now,
9.1.455	CT:	This is so interesting, where are you going with this, though? Where are you going with this? I mean, this is very interesting, I'm enjoying this very much. You put a lot of work into it.
9.1.456	Alan:	This isn't going to fit on notebook paper.

<b>Description: Clip 4 of 4, Testing the</b>	Transcriber(s): Yankelewitz, Dina	
doubling conjecture	Verifier(s): Yedman, Madeline	
Parent Tape: Building Large Models to	Date Transcribed: Spring 2009	
Show Equivalence: An Exploration	Page: 3 of 6	
(classroom view)		
Date: 1993-10-07		
Location: Colts Neck Elementary School		
<b>Researcher: Professor Carolyn Maher</b>		

9.1.457	CT:	We can take, listen, we can take this and paste it together and put your work on
9.1.458	Erik:	Well, it barely even fits on this!
9.1.459	CT:	Well, you have more than one piece there, so there's no problem.
9.1.460	Erik:	We can do that.
9.1.400	EHK.	I mean, if it doesn't fit on this, of course it can't fit on a single piece of notebook paper, but if we put a couple of pieces together
9.1.461	CT:	It's ok, we can set up a model. What should we?
9.1.462	David:	I think, maybe I counted wrong but that, but I counted it to be one twenty-third. Let me count again.
9.1.463	CT:	Look and see. See if you have it even.
9.1.464	Erik:	One two three, four, one two three
9.1.465	T/R 1:	They don't look lined up there, David. David, I'm not convinced they're lined up.
9.1.466	Erik:	Eleven twelve thirteen fourteen fifteen sixteen
9.1.467	Alan:	Dave, you have something wrong, you need another
9.1.468	Erik:	Twenty-three. You need to line them up.
9.1.469	Alan:	Here, you've got, yeah, you need another one of that.
9.1.470	T/R 1:	How about a ruler, would that help? The yardstick, behind the board there? A yardstick might help.
9.1.471	Erik:	Yeah [gets up].
9.1.472	T/R 1:	See it over there?
9.1.473	Alan:	Now, push, push, push the reds down.
9.1.474	Erik:	Just push em in, and then you can get one more.
9.1.475	Alan:	There.
9.1.476	Erik:	Now put one more on.
9.1.477	Alan:	Take a yardstick and flatten the whole thing out.
9.1.478	Erik:	What do you mean, flatten it out?
9.1.479	Alan:	It's all wavy.
9.1.480	Meredith:	Yo!!! I just worked [inaudible]
9.1.481	Erik:	No, I mean, it's not ok, cuz, no offense Meredith, but isn't this called
		the major model we're working on?
9.1.482	David:	That's what we're doing.
9.1.483	Meridith:	That's why we came over here.
9.1.484	Alan:	Ok. Pointless.
9.1.485	Erik:	Nine, ten, eleven, twelve, thirteen, fourteen fifteen, oops, sorry. I just
		think the purples
9.1.486	Alan:	Is that enough?
9.1.487	Erik:	One two three four five six seven eight nine ten
9.1.488	David:	This is going to be twelve.

Description: Clip 4 of 4, Testing the	Transcriber(s): Yankelewitz, Dina
doubling conjecture	Verifier(s): Yedman, Madeline
Parent Tape: Building Large Models to	Date Transcribed: Spring 2009
Show Equivalence: An Exploration	Page: 4 of 6
(classroom view)	
Date: 1993-10-07	
Location: Colts Neck Elementary School	
<b>Researcher: Professor Carolyn Maher</b>	

9.1.489	Erik:	Eleven Twelve
9.1.490	David:	I know it. The purples
9.1.491	Erik:	Five six seven eight nine ten eleven twelve. There we go.
9.1.492		[Alan begins to straighten the model with the yardstick] No, that
).1.4)2	wierearth.	side's
9.1.493	Erik:	You don't really need- Wait a minute, now I just gotta do the thirds
		and fourths.
9.1.494	David:	Don't touch anything now.
9.1.495	Erik:	One two three four five six
9.1.496	David:	Don't touch anything. [David gets up and leaves view of camera for
		a minute and returns] I think the ones would be one forty-eighth
9.1.497	Erik:	Wait, four, eight twelve, just count by fours, cuz.
9.1.498	David and	Erik: Two four six eight ten twelve fourteen sixteen eighteen
		twenty twenty-two twenty-four twenty-six twenty-eight.
9.1.499	David:	Thirty.
9.1.500	Erik:	Two four six eight ten twelve fourteen sixteen eighteen twenty
		twenty-two twenty-four twenty-six twenty-eight thirty, thirty-two,
		thirty-four, thirty-six, thirty-eight, forty, forty-two, forty-four, forty-
		six, forty-eight. Yep, forty-eight.
9.1.501	T/R 1:	Are you surprised that it's forty-eight?
9.1.502	David:	No, that's what I thought it would be.
9.1.503	T/R 1:	That's what you guessed? In other words, you were able to build
		what you thought, what you predicted. Are you going to be able to
		write this up?
9.1.504	David:	Um, well, not draw, maybe not
9.1.505	T/R 1:	Maybe sketch it, maybe you want to take some notes on your
		diagram before it ends. What do you think, Meredith? You think you
		made another, you made a different model. Ok, you might want to
		take some notes to sketch it so you remember what you did. So you
		can start
9.1.506	David:	Cuz I thought the greens were the purples one twelfth.
9.1.507	Erik:	So I think what I'm gonna do
9.1.508	T/R 1:	So you think the purple's one twelfth - is there another name for that
		purple?
9.1.509	Erik:	Um, one, one
9.1.510	T/R 1:	Meredith knows how to find other names for these
9.1.511	Erik:	One twelfth
9.1.512	T/R 1:	That's one name, one twelfth. Is there another number name for the
		purple?
9.1.513	Erik:	One fourth, no. I mean, uh, what's it called. Wait,

Description: Clip 4 of 4, Testing the doubling conjecture Parent Tape: Building Large Models to Show Equivalence: An Exploration			Transcriber(s): Yankelewitz, Dina Verifier(s): Yedman, Madeline Date Transcribed: Spring 2009 Page: 5 of 6
(classroom view)			
Date: 1993-			
		mentary School	
Researcher	: Professor Ca	rolyn Maher	
0 1 5 1 4	T/R 1:	If you wore wing	
9.1.514 9.1.515	Erik:	If you were using- One whole!	
9.1.515	T/R 1:		ia
	Erik:	If, let me ask you th	
9.1.517		One whole, one half	
9.1.518	T/R 1:	is my question, to, t number names and 1	you're gonna have to prove it to me, Erik. This o Meredith, who likes to come up with different Erik sometimes says on the tape, "I don't know re more names. I like to have lots of names,
9.1.519	David:	Four twelfths.	
9.1.520	T/R 1:	Ok, David thinks fo	ur twelfths
9.1.521	Erik:	One twelfth! One tw	velfth!
9.1.522	T/R 1:	We know it's one twel	velfth, we've proved it's one twelfth and you've fth.
9.1.523	Erik:	1	. I mean, four forty-eighths.
9.1.524	T/R 1:	Four forty-eighths.	, <b>.</b>
9.1.525	Erik:		would be, the whites would be forty-eighths, and
9.1.526	David:	[interjecting]-I didn	
9.1.527	Erik:	[continuing] Four w	
9.1.528	David:	Four twelfths.	
9.1.529	Erik:	Four forty-eighths.	
9.1.530	T/R 1:	You mean four forty	v-eighths.
9.1.531	Erik:	I said four forty-eig	•
9.1.532	T/R 1:	Meredith? You thin	
9.1.533	Erik:	Four forty-eighths c	
9.1.534		One twelfth.	
9.1.535	Erik:	One twelfth.	
9.1.536	T/R 1:		lfth, we have four forty-eighths. Any other
		names?	,
9.1.537	Erik:		Two, two, two twenty-fourths!
9.1.538	T/R 1:	Two twenty-fourths	-
9.1.539	Erik:	Two twenty fourths	
9.1.540	T/R 1:	Ok, we have one tw	elfth, two twenty-fourths, four forty-eighths, many different number names and different
9.1.541	Erik:		b be the same whole?
9.1.542	T/R 1:	What do you think?	
9.1.543		It can also be bigger	
9.1.544	Erik:		irds, halves, it could be a
			,,,

Description: Clip 4 of 4, Testing the	Transcriber(s): Yankelewitz, Dina	
doubling conjecture	Verifier(s): Yedman, Madeline	
Parent Tape: Building Large Models to	Date Transcribed: Spring 2009	
Show Equivalence: An Exploration	Page: 6 of 6	
(classroom view)		
Date: 1993-10-07		
Location: Colts Neck Elementary School		
Researcher: Professor Carolyn Maher		

<ul> <li>9.1.546 Erik: Those are sixteenths.</li> <li>9.1.547 Meredith: One sixteenth and one forty-eighth.</li> <li>9.1.548 T/R 1: One sixteenth.</li> <li>9.1.549 Meredith: Or one forty-eighth.</li> <li>9.1.550 T/R 1: How did you get sixteenths?</li> <li>9.1.551 Erik: Because there are sixteen that line up to the answer.</li> <li>9.1.552 Meredith: One sixteenth</li> <li>9.1.553 T/R 1: Show me they're sixteen.</li> <li>9.1.554 Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eight [laughs] I don't-</li> <li>9.1.566 T/R 1: Well, think about it. [to class] Ok. I think we have to clean up</li> </ul>	9.1.545	T/R 1:	What are green? What's one green?
<ul> <li>9.1.548 T/R 1: One sixteenth.</li> <li>9.1.549 Meredith: Or one forty-eighth.</li> <li>9.1.550 T/R 1: How did you get sixteenths?</li> <li>9.1.551 Erik: Because there are sixteen that line up to the answer.</li> <li>9.1.552 Meredith: One sixteenth</li> <li>9.1.553 T/R 1: Show me they're sixteen.</li> <li>9.1.554 Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty-eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.546	Erik:	Those are sixteenths.
<ul> <li>9.1.549 Meredith: Or one forty-eighth.</li> <li>9.1.550 T/R 1: How did you get sixteenths?</li> <li>9.1.551 Erik: Because there are sixteen that line up to the answer.</li> <li>9.1.552 Meredith: One sixteenth</li> <li>9.1.553 T/R 1: Show me they're sixteen.</li> <li>9.1.554 Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.547	Meredith:	One sixteenth and one forty-eighth.
<ul> <li>9.1.550 T/R 1: How did you get sixteenths?</li> <li>9.1.551 Erik: Because there are sixteen that line up to the answer.</li> <li>9.1.552 Meredith: One sixteenth</li> <li>9.1.553 T/R 1: Show me they're sixteen.</li> <li>9.1.554 Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.548	T/R 1:	One sixteenth.
<ul> <li>9.1.551 Erik: Because there are sixteen that line up to the answer.</li> <li>9.1.552 Meredith: One sixteenth</li> <li>9.1.553 T/R 1: Show me they're sixteen.</li> <li>9.1.554 Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> </ul>	9.1.549	Meredith:	Or one forty-eighth.
<ul> <li>9.1.551 Erik: Because there are sixteen that line up to the answer.</li> <li>9.1.552 Meredith: One sixteenth</li> <li>9.1.553 T/R 1: Show me they're sixteen.</li> <li>9.1.554 Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> </ul>	9.1.550	T/R 1:	How did you get sixteenths?
9.1.553T/R 1:Show me they're sixteen.9.1.554Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.9.1.555T/R 1:Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?9.1.556Erik:Is the difference between9.1.557Meredith: Oh, a green and blue, one forty-eighth.9.1.558T/R 1:So how would, what number name would you give for the differences between9.1.559Erik:Also, the, it also could be it would take two of them to equal up to a brown.9.1.560T/R 1:Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.9.1.561Erik:So I think you could work it out if you worked hard enough.9.1.563Meredith:Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it9.1.564T/R 1:The difference? Oh, so what number name would you give to that?	9.1.551	Erik:	Because there are sixteen that line up to the answer.
<ul> <li>9.1.554 Erik and Meredith: One two three four five six seven eight nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> </ul>	9.1.552	Meredith:	One sixteenth
<ul> <li>twelve, thirteen, fourteen, fifteen, sixteen.</li> <li>9.1.555 T/R 1: Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?</li> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.553	T/R 1:	Show me they're sixteen.
9.1.555T/R 1:Ok, so the green is one sixteenth. But is the difference between three quarters and two thirds a green?9.1.556Erik:Is the difference between9.1.557Meredith:Oh, a green and blue, one forty-eighth.9.1.558T/R 1:So how would, what number name would you give for the differences between9.1.559Erik:Also, the, it also could be it would take two of them to equal up to a brown.9.1.560T/R 1:Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.9.1.561Erik:Seventh?9.1.563Meredith:Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it9.1.564T/R 1:The difference? Oh, so what number name would you give to that?9.1.565Meredith:Uh, one forty eighth [laughs] I don't-	9.1.554	Erik and N	Aeredith: One two three four five six seven eight nine, ten, eleven,
9.1.556Erik:Is the difference between9.1.557Meredith:Oh, a green and blue, one forty-eighth.9.1.558T/R 1:So how would, what number name would you give for the differences between9.1.559Erik:Also, the, it also could be it would take two of them to equal up to a brown.9.1.560T/R 1:Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.9.1.561Erik:Seventh?9.1.562T/R 1:So I think you could work it out if you worked hard enough.9.1.563Meredith:Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it9.1.564T/R 1:The difference? Oh, so what number name would you give to that?9.1.565Meredith:Uh, one forty eighth [laughs] I don't-			twelve, thirteen, fourteen, fifteen, sixteen.
<ul> <li>9.1.556 Erik: Is the difference between</li> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.555	T/R 1:	Ok, so the green is one sixteenth. But is the difference between three
<ul> <li>9.1.557 Meredith: Oh, a green and blue, one forty-eighth.</li> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>			quarters and two thirds a green?
<ul> <li>9.1.558 T/R 1: So how would, what number name would you give for the differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that? Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.556	Erik:	Is the difference between
<ul> <li>differences between</li> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.557	Meredith:	Oh, a green and blue, one forty-eighth.
<ul> <li>9.1.559 Erik: Also, the, it also could be it would take two of them to equal up to a brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.558	T/R 1:	So how would, what number name would you give for the
<ul> <li>brown.</li> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>			differences between
<ul> <li>9.1.560 T/R 1: Well, these are the things I want you to think about and write about. Ok? I think these are good questions that are for you. We're up to seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.559	Erik:	Also, the, it also could be it would take two of them to equal up to a
Ok? I think these are good questions that are for you. We're up to seventh grade math already.9.1.561Erik:9.1.562T/R 1:So I think you could work it out if you worked hard enough.9.1.563Meredith:Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it9.1.564T/R 1:T/R 1:The difference? Oh, so what number name would you give to that?9.1.565Meredith:Uh, one forty eighth [laughs] I don't-			brown.
<ul> <li>seventh grade math already.</li> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.560	T/R 1:	
<ul> <li>9.1.561 Erik: Seventh?</li> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>			
<ul> <li>9.1.562 T/R 1: So I think you could work it out if you worked hard enough.</li> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>			seventh grade math already.
<ul> <li>9.1.563 Meredith: Yeah, but I think if you took one sixteenth and one forty -eighth and you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.561	Erik:	Seventh?
<ul> <li>you put it up to it, it</li> <li>9.1.564 T/R 1: The difference? Oh, so what number name would you give to that?</li> <li>9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-</li> </ul>	9.1.562	T/R 1:	So I think you could work it out if you worked hard enough.
9.1.564T/R 1:The difference? Oh, so what number name would you give to that?9.1.565Meredith:Uh, one forty eighth [laughs] I don't-	9.1.563	Meredith:	Yeah, but I think if you took one sixteenth and one forty -eighth and
9.1.565 Meredith: Uh, one forty eighth [laughs] I don't-			• • •
	9.1.564		
9.1.566 T/R 1: Well, think about it. [to class] Ok. I think we have to clean up		Meredith:	Uh, one forty eighth [laughs] I don't-
, L J T	9.1.566	T/R	1: Well, think about it. [to class] Ok. I think we have to clean up