

<b>Description: Division of Fractions: A Whole Class Discussion About Number Sentences</b> <b>Parent Tape: Introducing Division of Fractions (classroom, side and presentation view)</b> <b>Date: 1993-12-02</b> <b>Location: Colts Neck Elementary School</b> <b>Researcher: Professor Carolyn Maher</b>	<b>Transcriber(s): Yankelewitz, Dina</b> <b>Verifier(s): Lew, Kristen</b> <b>Date Transcribed: Spring 2009</b> <b>Page: 1 of 5</b>
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Line	Time	Speaker	Transcript	Code
1	00:00	S T/R 2	I have some people that say wow, you just really threw me right off the track and I have some people that are asserting that they're pretty sure that they have an idea of how to do this, so I think that we need to discuss it now. What we want to do is take this second sentence here "how many 1/6's are in 1?" and change it completely to a number sentence, ok? We started to do that when your parents were here last week, but we got into it I think at varying degrees, some of us really got further with it than others. So I think we need to kind of discuss and talk. Who thinks that they have an idea for what might be a number sentence that would describe this? Ok, I've heard some ideas? Gregory? Mark and Gregory, you can report together, however you want on your discovery.	
2		CT	Do you want them up there?	
3		T/R 2	Why don't you tell me first, and then if we need to build a model we may have you come up and do that.	
4		Mark	Well we have 1 divided by 1/6 equals 6.	
5		T/R 2	1 divided by 1/6 equals 6. Ok. Did anyone else come up with that for a number sentence to describe the question how many 1/6's are in 1? We have several pairs, looks like about maybe 8 or 9 people who came up with the same sentence. Do we have any other ideas to put out on the table here, the things that might be a possible number	

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			sentence? Ok, alright. So this is what's being proposed. I want somebody to come up and tell me about this now, about how this describes this sentence.	
6		Jessica	They had one, I don't know if they want to do it [referring to Amy and Jackie, they laugh.	
7	01:45	T/R 2	Oh, we've got some modest folks here. I don't want to put anybody on the spot. If you'd like to come up though, just raise your hand. Uh, let's see. Ok, 3 or 4 people are volunteering. How about, anybody else? Some of you are just going hmmm, I don't know about this. Ok let's see, how about, I'd like to hear from Michael I think, because he was working with Meredith and they were arguing about this. I want to hear what Michael has to say. I've heard what Meredith has to say. [Michael walks up to the overhead]. If this works, how does it work?	
8		Michael	It works because division you see how many times you can get a number into a number. So you can get $1/6$ , umm you can get 6 times you can get $1/6$ into 1 with no remainders. So that would leave that that would be 6.	
9		T/R 2	So you're saying then that $1/6$ .	
10		Michael	You can have 6 of them.	
11		T/R 2	It goes into 1, if you were lining them up.	
12		Michael	6 times.	
13		T/R 2	6 times. Does that make sense?	
14		Erik	How can 6 go into 1 six times?	
15		Michael	No, I said	
16		Erik	1 whole but if you're dealing with numbers, it wouldn't make sense unless it was negative.	

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17		Michael	No, I mean, no, 1 divided by $1/6$ , when you ha- you would get 6.	
18		Erik	I know, but I'm saying if you were taking like 6 and 1, you couldn't put $6/6$ 's into 1.	
19	03:20	Michael	No, I never said that.	
20		T/R 2	Erik, I don't think that's what Michael said though.	
21		Erik	I know.	
22		T/R 2	Ok, You're doing another problem. You're taking this to a challenge problem here I think.	
23		Meredith	He's just trying to say that there's $6/6$ 's is 1 whole.	
24		T/R 2	I think Erik knows that. Erik is really taking us on to another problem to think about I think. But let's get back to this one, does this make sense? For those of you who really weren't too sure how to begin, does this make sense to write it this way? Ok. How many $1/6$ 's go into 1? Ok, and you guys are telling me there's 6 of those. Ok I'll agree with that. Ok, let's try one more. You can take a seat Michael, thank you. Actually, can we go back to that first one for just a minute, and maybe write this one as a number sentence? Remember this one, the red and orange train? Can we rewrite this as a number sentence now? The question is how many $1/12$ 's are in 1?	
25			[Stands, raises hand] Oh, oh, I can do it!	
26			[Students are given approximately 2 minutes.] I see a couple people. I see the same people who can tell me a number sentence this time. I think more of you could	

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			<p>tell me, so I'm going to wait until more of you feel like you want to talk to me today. I see a couple more hands. I think more of you can tell me what the number sentence for this would be, especially after doing the last one and seeing how that worked. Does anyone want to try? Someone different? I see Mark's hand, I see Allen's hand, Graham. Ladies? Any ladies want to tell me how this might work? Jessica, Laura, I see some more hands. I'm getting happier. Ok let's see, more hands. A couple more hands I would like to see come up.</p>	
27		CT	[As T/R 2 continues talking below] Ok, what do you call this?	
28		Danielle	One	
29	05:52	CT	One. What do you call this?	
30		Danielle	One twelfth.	
31		CT	If I do one divided by one twelfth, what do I get?	
32		Danielle	Um, twelve?	
33		CT	Do you have twelve parts here?	
34		Danielle	Um, yeah.	
35		CT	One divided by one twelfth. Both hands [Danielle raises both hands.]	
36		T/R 2	<p>I know I'm being a bit of a pain, but I really want to see you all participating today. It's important that you all understand. Oh, Amy's hand's up now. Jackie's hand's up. Brian, how about you? Do you think that you could do it? [Brian's neighbor raises his hand for him]. Alright, let's hear from some folks. Ok, a number sentence, uh, how about, well I would like to hear from Brian and</p>	

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			Danielle. There seemed to be a lot of discussion going on over there, I want to hear from them. Danielle, do you want to start? Tell me how you'd write the number sentence.	
37		Danielle	I would write it 1 divided by 1/12 equals 12.	
38		T/R 2	Ok. Is there anyone who does not agree with that? All of you had your hands up, is this what you were thinking of telling me? [Students nod, say yes]. I believe that. Ok, I really believe that you can do this.	