

Description: Comparing Unit Fractions, Clip 3 of 5 Parent Tape: Fraction problems: Sharing and Number Lines Date: 1993-11-01 Location: Colts Neck Elementary School Research: Professor Carolyn Maher	Authors: Schmeelk, Suzanna Verified: Cann, Matthew Date: Spring 2009 Page: 1 of 4
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Line	Time	Speaker	Transcript
1	00:00	RT1	<i>[Writes one half, one third, one fourth and one fifth]</i> So, if I were to say things, like one half, one third, one fourth, one fifth, right? If I were talking about these numbers do you know which are bigger and which are smaller? How many think you know which are bigger and which are smaller? Who could explain why?
2		Class	<i>[Many students raise their hands.]</i>
3		RT1	David, what do you think?
4		David	Well I think that if you one half would be right in the middle that would be the biggest. Then one third that would be kind of smaller because you have fit three pieces in there. Then one fourth would be even smaller than one third.
5		RT1	Want to come draw that for me? You all hear what David is saying?
6		David	<i>[Walks up to OHP in front of the room.]</i>
7		RT1	Want to draw your one. Call something one and zero draw it?
8		David	Maybe the orange
9		RT1	Just sketch it ...
10		David	If this is the one here
11			... then one half would be there...
12		RT1	Can you mark one half right where you put it, like put it underneath so we can see it?
13		David	What do you mean?
14		RT1	Just draw the number one half where you want to show one half.
15		David	Then, one third.
16			And then like one fourth.
17		RT1	Then, one fifth. Thank you very much. Does anyone have a question to ask David before he sits down about what he did here? Thank you, David. Where do you think one fifth would be Meredith?
18		Meredith	The whole would be divided into fifths.
19		RT1	So do you think it would be to the right of a quarter or to the left of a quarter?
20		Meredith	Left.
21		RT1	So somewhere like this maybe?

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22	02:56	RT1	I'm going to do this. I'm going to call this zero and I'm going to call this one. I wonder who wants to come up here and mark where the number one half would be? Michael?
23		Michael	<i>[Walks up to OHP in front of the room.]</i>
24		RT1	Do you want to mark the number underneath? Where I put the zero and the one.
25		Michael	<i>[Places the number midway between 0 and 1.]</i>
26		RT1	Thank you, Michael. How many of you agree with that? Would you put it in the same place?
27		RT1	What do you think the next question I'm going to ask you?
28		Class	Where would you put one third?
29		RT1	So, where do you put one third? Would you call on someone? Erik?
30		Erik	<i>[Walks up to OHP in front of the room.]</i>
31		RT1	You got to watch because if you don't agree you've got to say it. Approximate is okay, Erik.
32		Erik	<i>[Places the number one third to left of one half.]</i>
33		RT1	How many of you agree with that?
34		Class	<i>[Camera shows students raising their hands.]</i>
35		RT1	Does anyone disagree?
36		Class	<i>[Camera shows students raising their hands.]</i>
37		RT1	Don't go away, Erik, what's the next question? Someone disagrees.
38		Andrew	I do. The one third approximately needs to be a little more over because the one fourth has to be half of the one half. So, if you put one fourth half of that <i>[placement of one third]</i> it would be on the left of the one third.
39	05:00	Erik	I know. I didn't, I didn't put the one third. The one third, if it was one fourth it would probably be about here right or just about an inch over. So it's not, it's just approximate cause I don't think
40		RT1	You want to call on Andrew to put in the one quarter?
41		Andrew	<i>[Laughs. Walks up to OHP in front of the room. Places a one fourth to left of one third.]</i>
42		Andrew	Should I call on someone to place one fifth?

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43		RT1	How many of you agree with what's up there?
44		Class	[<i>Several students raise their hands.</i>]
45		RT1	Anyone disagree? [<i>No students in view raise hand</i>]
46		RT1	Okay. What about the one fifth? Want to call on someone? Brian.
47		Brian	[<i>Walks up to OHP in front of the room and places one fifth to left of one fourth.</i>]
48		RT1	How many agree with that?
49		Class	[<i>A few students in view raise their hands.</i>]
50		RT1	Suppose I asked you to put one tenth up there. Where do you think it would go? Think about it for a minute and tell me where you think it would go. One tenth. Beth, is your hand up or just thinking? [<i>Beth remains quiet</i>] Where to put one tenth. What do you think?
51	07:26	RT1	Any ideas? Erin? No no ideas? People have some ideas? Mark?
52		Mark	[<i>Walks up to the OHP and writes one tenth to the left of one fifth</i>]
53		RT1	What do you think?
54		Erik	I disagree.
55		RT1	Erik, disagree? James? Its getting hard. Brian? Jakki, you disagree? Why do you disagree? For those of you that disagree.
56		Jacquelyn	Well, if one fifth is next to the end. Then five plus five equals up to ten, so it would be like in the half.
57		RT1	Jakki thinks one tenth should go in the middle.
58		Students	[<i>mumble no</i>]
59		RT1	You disagree. James?
60		James	I think it should go more towards zero.
61		Students	[<i>mumbles yeah</i>]
62		RT1	David? Alan?
63		Alan	I think that the one tenth should be moved over just a tiny bit.
64		RT1	It's getting hard to do this, isn't it?
65		Alan	Up there you have a whole, you are dividing it into tenths and you have a half mark. So you have to use this as a guideline, you'd have five tenths on one side and five tenths on the other side. Now, up

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			there, if you took that little space between the zero and the one fifth, and you cut that five times it wouldn't reach the half way mark.
66		Mark	It's like one, two, three, four, this is all
67		RT1	What do you think? Brian?
68		Brian	I agree with Mark. It is a little far back. I think the third should be moved up, then the fourth should be moved up. I thought the fifth was wrong when I did it because everything was kinda moved back.
69	09:58	RT1	Know what I would like you to do? Maybe the problem is there isn't a lot of space; when you use the overhead pen it takes a lot of room. Know what I would like you to do in your seats? I would like you all to make your own number line between zero and one. I would like to see if you could place fractions between zero and one. I'd like you to place all the fractions, one half, one third, one fourth, one fifth, one sixth, one seventh, one eighth, one ninth and one tenth, with your partner.