

<p><b>Description: Clip 5 of 7: Michael and Brian compare two third and three fourth Parent Tape: Continuing to Explore Fraction Comparisons Date: 1993-10-06 Location: Colts Neck Elementary School Researcher: Carolyn Maher</b></p>	<p><b>Transcriber(s): Yankelewitz, Dina Verifier(s): Yedman, Madeline Date Transcribed: Spring 2009 Page: 1 of 7</b></p>
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- 8.1.308 T/R 2: You could have another sheet of paper. Ok, this time I want you to compare. [talk about room on sheets] This time I want you to compare two thirds and three fourths.
- 8.1.309 Michael: Two thirds and three fourths.
- 8.1.310 Brian: Ok.
- 8.1.311 T/R 2: Decide which one is bigger, and by how much, if in fact one is bigger.
- 8.1.312 Brian: I'm going to use my big model that I made
- 8.1.313 Michael: Ok, so we should put, I'm going to put my name
- 8.1.314 T/R 2: In fact you will want to put those two fractions down so that you remember what they are.
- 8.1.315 Brian: I'm going to use my big model that I made
- 8.1.316 T/R 2: Ok.
- 8.1.317 Michael: I know I made, we, we, me and him made this huge model. I made another one. I made one of thirty. This one's..
- 8.1.318 Brian: We made thirty - three of those, but we couldn't make fourths.
- 8.1.319 T/R 2: Ok, so the problem is two thirds, compare two thirds and three fourths, which is bigger and by how much
- 8.1.320 Brian: Two thirds
- 8.1.321 Michael: Wait a minute, we have to change our -
- 8.1.322 Brian: Three fourths
- 8.1.323 Michael: We have to change this
- 8.1.324 Brian: Oh, why don't we just make this one, the old one?
- 8.1.325 Michael: Two thirds [makes noise]
- 8.1.326 Brian: But we can't, we can't make fourths with this.
- 8.1.327 Michael: Yes we can.
- 8.1.328 Brian: Can we?
- 8.1.329 Michael: Yeah
- 8.1.330 Brian: Oh yeah, yeah
- 8.1.331 Michael: We can use the light greens
- 8.1.332 Brian: Yeah, Hang on, ok, k, what was it, three fourths compared to... wait, what was it?
- 8.1.333 Michael: It was, which, um, which is bigger, two thirds or three fourths, by how much? Two thirds is bigger
- 8.1.334 Brian: By two thirds,
- 8.1.335 Michael: No, not by two thirds
- 8.1.336 Brian: No, no, wait, wait
- 8.1.337 Michael: No! Wait! Three fourths is bigger than two thirds, see?
- 8.1.338 Brian: I know, I know
- 8.1.339 Michael: By one sixth!

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- 8.1.340 Brian: Two thirds-
- 8.1.341 Michael: By one sixth, see?
- 8.1.342 Brian: Wait, wait, wait, what was the question? Two thirds, two thirds and three fourths?
- 8.1.343 Michael: No, which is bigger, two thirds or three fourths?
- 8.1.344 Brian: Let me write it down, let me just write it down.
- 8.1.345 Michael: Which is bigger, two thirds or three fourths
- 8.1.346 Brian: Ok so it's two thirds
- 8.1.347 Michael: or three fourths
- 8.1.348 Brian: Two thirds
- 8.1.349 Michael: by how much
- 8.1.350 Brian: or three fourths
- 8.1.351 Michael: Yeah, [writing] by how much? Ok, I'm done. Look at this.
- 8.1.352 Brian: Question mark
- 8.1.353 Michael: Oh! Ok, so it's bigger by
- 8.1.354 Brian: Wait a minute let me make two thirds, let me make two thirds
- 8.1.355 Michael: What the... It's bigger by one twelfth
- 8.1.356 Brian: Why did you make that model? Ok, now it's three fourths, let me just copy this down.
- 8.1.357 Michael: Don't copy it down yet. We may be wrong
- 8.1.358 Brian: No, no no, I'm copying down two thirds and three fourths
- 8.1.359 Michael: Ok, ok, so will I.
- 8.1.360 Brian: Good we have... Ok [pause] Ok, now three fourths.
- 8.1.361 Michael: Three fourths. [other students talking, Jessica's model]
- 8.1.362 Brian: How is it big.. how much is it bigger by?
- 8.1.363 Michael: It's bigger by a little white thing. But what do we call the white thing?
- 8.1.364 Brian: A twelfth
- 8.1.365 Michael: A twelfth?
- 8.1.366 Brian: Yeah.
- 8.1.367 Michael: A twelfth
- 8.1.368 Brian: Yeah, yeah, wait, yeah, that is twelve
- 8.1.369 Michael: Yeah, it's a twelfth
- 8.1.370 Brian: And those are the thirds, and these are the fourths.
- 8.1.371 Michael: Jeez. We're getting all these different answers - I thought they'd be, I thought we'd get the same answer
- 8.1.372 Brian: What about yesterday, did you write "yes I think it's possible to get different answers for different models" so did I but I didn't write down, but I didn't write down what we did here. I wrote yes and I

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- 8.1.373 Michael: did a different one. And then, I was just about to say no. I was just about to say that. Um, by one twelfth.
- 8.1.373 Michael: See? One, two, three, four, five, six, seven, eight, nine, ten eleven, twelve.
- 8.1.374 Brian: I'm putting that right there.
- 8.1.375 Michael: By one twelfth, right?
- 8.1.376 Brian: Good.
- 8.1.377 Michael: Ok, now the white dude
- 8.1.378 Brian: Look, I just, like, put my model right on top of what I draw.
- 8.1.379 Michael: There, there's my model
- 8.1.380 Brian: Oh wait wait wait.
- 8.1.381 Michael: What are doing the pointer for? [intercom interrupts]
- 8.1.382 Brian: Which step. A twelfth extra.
- 8.1.383 Michael: Oh, One twelfth extra?
- 8.1.384 Brian: Yeah, so look, I just put my um, I just put the Cuisenaire rods right on top of what I just did.
- 8.1.385 Michael: Oh, I made it too small.
- 8.1.386 Brian: Look, I just put my Cuisenaire rods right on top. Look, see?
- 8.1.387 T/R 2: How are we doing?
- 8.1.388 Brian: I just did um, I just figured out that three-fourths is bigger than two-thirds
- 8.1.389 Both By one twelfth
- 8.1.390 Brian: Cuz one twelfth is like extra, it's like right there, see
- 8.1.391 T/R 2: Oh
- 8.1.392 Brian: And I put it right there and I pointed to it, and I wrote one twelfth extra.
- 8.1.393 T/R 2: Ok, so I can compare the two fractions here. What was the whole here, what were we calling the one here, the whole train?
- 8.1.394 Brian: [interjecting] The whole is, this is the whole, well this was the whole and there was one fourth, it used to have been a fourth right here but I guess we could change the
- 8.1.395 T/R 2: So the train
- 8.1.396 Brian: It'd be nine, right there.
- 8.1.397 T/R 2: That was one
- 8.1.398 Brian: Yeah
- 8.1.399 T/R 2: That's what you're calling one
- 8.1.400 Brian: Well, I just did that right now. Cuz the whole was really supposed to be this.
- 8.1.401 T/R 2: Ok, so this was one

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- 8.1.402 Brian: Yeah, this was supposed to be one, but it said two thirds, so we took this one out and we put that in there to make it equal up to the three fourths
- 8.1.403 T/R 2: Ok so then this was one.
- 8.1.404 Brian: Yeah
- 8.1.405 T/R 2: Ok, so you want to add that as well, maybe you can even trace it in on the top here, or...
- 8.1.406 Brian: I guess I could put it on the bottom.
- 8.1.407 T/R 2: Or the bottom, and label it one. K, so this was one, purples turned out to be thirds, and greens turned out to be fourths.
- 8.1.408 Brian: Well but what should I do, should I just put another one here, like that? Because, cuz I drew something under it
- 8.1.409 T/R 2: No that's ok, I understand what you did here. All I need to see now is what one was. What you called one
- 8.1.410 Brian: Oh, oh.
- 8.1.411 T/R 2: That's all I need to understand about your problem
- 8.1.412 Brian: Should I use this? Should I use this? Even that is one whole to these, or should I use the one right here?
- 8.1.413 T/R 2: I don't know, it's a good question, What do you think?
- 8.1.414 Brian: How it was originally the one whole only I had to take this one out to make it two thirds, that's what I was thinking
- 8.1.415 T/R 2: What do you think? What's your instinct what we should be using?
- 8.1.416 47:10 Brian: Well, I think I probably should use this cuz this is changing the one whole, because, because that, we just took, we just took out um one third to make the, to make this problem, and this wasn't the real third, this wasn't, I mean the real whole anyway, so I guess I should just use this.
- 8.1.417 T/R 2: Yeah you'd be changing the problem wouldn't you?
- 8.1.418 Brian: Yeah
- 8.1.419 T/R 2: Ok, since all of your fraction names came from what your number name one was, you want to go back to that.
- 8.1.420 Brian: So should I just copy this down?
- 8.1.421 T/R 2: That would help me, yeah, that would help me to remember, and remember, put the colors inside, too, so I can remember
- 8.1.422 Brian: Oh, should I put it just on the side?
- 8.1.423 T/R 2: You could just put it on the side. Yeah. I know they don't always fit.
- 8.1.438 V1: You've done the three quarters and two thirds one
- 8.1.439 Michael: We're doing it
- 8.1.440 Brian: We did it. Yeah, I just finished mine, I think.

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- 8.1.441 V1: You, did? Oh, you're very neat.
- 8.1.442 Brian: Ok, um, it said two thirds and three fourths.
- 8.1.443 V1: mmm hmmm
- 8.1.444 Brian: and um and three fourths was bigger by one twelfth and um
- 8.1.445 V1: and how did you know that was a twelfth
- 8.1.446 Brian: well because I put mine [side comment]
- 8.1.447 Brian: We didn't have one
- 8.1.448 Michael: Yeah we have a couple
- 8.1.449 V1: Oh, I didn't take all of them, oh you even have.... Here's a whole bunch of them hiding under there
- 8.1.450 Brian: So you put this right there
- 8.1.451 V1: right
- 8.1.452 Brian: and
- 8.1.453 V1: and you said it was one white square bigger
- 8.1.454 Brian: Yeah
- 8.1.455 V1: And then how'd you know how much a white square was?
- 8.1.456 Michael: Because we put it up to the one whole which was
- 8.1.457 Brian: This was the one whole, this was the one whole
- 8.1.458 Michael: And we lined twelve of them up
- 8.1.459 Brian: These were the thirds
- 8.1.460 Michael: Well, Here's another one.
- 8.1.461 Brian: These were the thirds, I mean, um, yeah, the thirds,
- 8.1.462 V1: Right
- 8.1.463 Brian: And these were the fourths
- 8.1.464 V1: The light green ones were the fourths
- 8.1.465 Brian: Yeah and so and this is and all this and this is and the one whole and the um like when we line them up down into steps the orange was a ten and we added and the red was a two and we add that together and that was a twelve
- 8.1.466 V1: Ok.
- 8.1.467 Brian: That was twelve,
- 8.1.468 V1: Makes sense.
- 8.1.469 Brian: And so, and so this is, if you take twelve of these, all the way in here, put them against here, twelve of them, you could see that there are twelve of them there and it equals up to the one whole
- 8.1.470 V1: So one of them
- 8.1.471 Brian: Yeah, and they're all twelfths
- 8.1.472 V1: I see, because twelve of them equal the whole one
- 8.1.473 Brian: Yeah.
- 8.1.474 V1: I see, ok, and then since it's only one little triangle bigger,

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8.1.475 Brian: Yeah

8.1.476 V1: One little square, uh,

8.1.477 Brian: Cube

8.1.478 V1: Thank you, one cube bigger, then that's one twelfth

8.1.479 Brian: Yeah

8.1.480 V1: Ok, that makes sense to me.

8.1.481 Brian: And then I made the whole down here.

8.1.482 V1: Now, can you make another model for this?

8.1.483 Brian: Uh, yeah, I think so.

8.1.484 V1: Ok, you're just going with the flow, huh, you're like yeah, sure why not, I can make another model, sure I can do anything. Oh, ok, perfect. I'm very impressed. [To Michael] Have you drawn that?

8.1.485 Michael: Yeah

8.1.486 V1: And you agree with him, right?

8.1.487 Michael: Yeah.

8.1.488 V1: You're in total agreement with him

8.1.489 Michael: yes

8.1.490 V1: You'll go wherever he goes. [Michael says yes again and laughs].  
Ok. Now try and get another model

8.1.491 Brian: Ok, um, think of another model. Would this be the same? Would this be the same length? Could we do this, even though it's the same?

8.1.492 Michael: Mmm, I doubt it. Why don't we try...

8.1.493 Brian: How about the black, try the black

8.1.494 Michael: The dark green is gonna be the thirds

8.1.495 Brian: Wait, wait, how about this?

8.1.496 Michael: We need some fourths. How about the browns?

8.1.497 Brian: How 'bout...how 'bout the browns? How about this one? Um...  
Here,

8.1.498 Michael: I'm trying to figure something. Nope, that won't work either

8.1.499 Brian: Look - it works! This works

8.1.500 Michael: So what's gonna be the, those? Those can't be the fourths.

8.1.501 Brian: I know

8.1.502 T/R 2: Those of you who are finishing up recording something for me so that I can share these with Dr. Maher, please make sure that your name is on each page that you've done and make sure you've written what the problem or the question was at the top of the page, these look wonderful I'm going to share these with her this afternoon when I see her.

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