

Description: Clip 3 of 4, Erik justifies a train model for one third Parent Tape: Building Large Models to Show Equivalence: An Exploration (classroom view) Date: 1993-10-07 Location: Colts Neck Elementary School Researcher: Professor Carolyn Maher	Transcriber(s): Yankelewitz, Dina Verifier(s): Yedman, Madeline Date Transcribed: Spring 2009 Page: 1 of 4
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- 9.2.345 Erik: They did the same model. Ok, this is what you do. You do three oranges, you do actually you do three oranges and two purples.
Three oranges
- 9.2.346 Alan: Four oranges
- 9.2.347 Erik: Three oranges!
- 9.2.348 Alan Ok
- 9.2.349 Erik Three oranges and two purples.
- 9.2.350 Alan: Two purples would just be a brown.
- 9.2.351 Erik: An then... a brown? No it wouldn't, yeah it would, and then you could make a train for the thirds. [talk about whose mat is who's] Ok, and then the browns, two browns would make a train for one third
- 9.2.352 Alan: Right,
- 9.2.353 Erik: And then,
- 9.2.354 Alan: Woo, woo, woo, woo
- 9.2.355 Erik: And then two more browns would make another train for thirds. One, two, I know. No, wait, no, it wouldn't be browns, it would be blacks.
- 9.2.356 David: Could I just do what I was thinking of? Could I just
- 9.2.357 Erik: No they're not, look, it'd be blue and a purple or a blue and a
- 9.2.358 David: Could I just make something?
- 9.2.359 Alan: Hey you're robbing me.
- 9.2.360 Erik: Everyone's robbing you, remember?
- 9.2.361 David: Could I have some
- 9.2.362 Erik: Me and David will work together.
- 9.2.363 David: Could I have some?
- 9.2.364 Meredith: I'm working with Erik.
- 9.2.365 David: Can't I just use some of the blocks over there? I brought it over Meredith.
- 9.2.366 David: Can I have some?
- 9.2.367 Alan: Check it out
- 9.2.368 Erik: No, I'm just kidding
- 9.2.369 Alan: Check it out.
- 9.2.370 Erik: Now divide it into thirds
- 9.2.371 Alan: Hmmm
- 9.2.372 Erik: You can't
- 9.2.373 Meredith: I have and idea.
- 9.2.374 Alan: Wow, something just popped into my head
- 9.2.375 Erik: Me too
- 9.2.376 David: Something just popped into my head.
- 9.2.377 Alan: The bigger you make the model, you can't third it.

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9.2.378 Erik: No no no no no, can I have these?
9.2.379 Alan: [continuing] You can't third something like this. You'd need colossal rods.
9.2.380 Erik: Like the ones over there?
9.2.381 David: I know something, alright?
9.2.382 Alan Impossible. That'd just like one dark green.
9.2.383 David Can I um do something?
9.2.384 Erik: Hold on, let me do something [start fighting over rods] Could I have the blue
9.2.385 Alan: Erik! You can't third that big orange model.
9.2.386 Erik: You want to make a bet? I bet I can.
9.2.387 Alan: You can't
9.2.388 Erik: I bet I can. Oranges
9.2.389 Alan: Because if you use more. Using oranges, if you use three oranges, you won't be able to third it. You won't be able to third it!
9.2.390 Erik: This is what I was thinking. One, two three. Oh contraire... It needs to be, let's see, how much smaller?
9.2.391 Alan: Look you can't third it, you fourthed it but you can't third it.
9.2.392 Erik: Ok, let's see, four one two, easily how you can do it.
9.2.393 Alan: Third it then.
9.2.394 Erik: What?
9.2.395 Alan: Third it then.
9.2.396 Erik: What do you mean?
9.2.397 David: Who took my thirds? I was using them.
9.2.398 Erik: Me! I think, no it wasn't me. It was Alan.
9.2.399 Alan: Make three blues and train it. Then you could use those
9.2.400 Erik: What do you think I was thinking of? Give me my rods back. Stop!
9.2.401 David: Meredith, can I have my rods? I brought them over.
9.2.402 Erik: Alan, you're stealing from, no no no, Alan you're stealing from us! No.
9.2.403 Meredith: Oh, oh! Did you just take one of my blues
9.2.404 Alan: No
9.2.405 Erik: Yeah. And for the thirds the thirds can easily be done by the blues
9.2.406 David: I have an idea.
9.2.407 Erik: I've got a good idea.
9.2.408 David: I've got a better idea.
9.2.409 Erik: The thirds, and then how much room do we have left? We have one blue left which is nine. One two three four five six seven eight nine.
9.2.410 David Just listen out.
9.2.411 Meredith: Me need a brown rod

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- 9.2.412 Erik: It all works out.
- 9.2.413 Alan: You know what you could try? Use three blues and the light green then use the oranges to third it then you could fourth it easily
- 9.2.414 Erik: Now.
- 9.2.415 David: I already have a third. See just put down the purple and I took off the green. Here's what I made.
- 9.2.416 Alan: Look it. [to Meredith] You have any blues?
- 9.2.417 Erik: Yeah but she's not going to give them to you.
- 9.2.418 Alan: And the light green. Easily your thirds can be used.
- 9.2.419 Erik: Perfect, I did it! Hello Alan, I did it!
- 9.2.420 Alan: You fourthed it too?
- 9.2.421 Erik: Yup! One two three four
- 9.2.422 Voice: Can you third that?
- 9.2.423 Erik: I thirDED it. One two three and then plus nine other of those, which would be one two three four five six seven eight nine. So it's just like making a new rod.
- 9.2.424 Alan: Fourthing it might be.
- 9.2.425 Voice: Can you run it by me again? I'm not quite following that.
- 9.2.426 Erik: Ok. I have the three of 'em, and then I put nine other ones which would equal another blue, so if I thirDED it, I would add one to there, one to there, and one to there, which would be three. And then four five six seven eight nine. So it's like adding another blue, but I'm making a new rod. [Erik's model is -Three orange rods and a dark green rod, a train of four blue rods, and a train of three blue rods and nine white rods]
- 9.2.427 Voice: Ok, can you set that up in a different way?
- 9.2.428 Erik: Well, in thirds
- 9.2.429 Voice: Use the same pieces, but can you set it up a little differently?
- 9.2.430 Meredith: Oh, I have an idea, put the three next to that, and then the three next to that and the three next to that.
- 9.2.431 Erik: Huh?
- 9.2.432 Meredith: I'll show you what I mean. [Meredith places three white rods after each blue rod.
- 9.2.433 Erik: How can we make it bigger than him? He did the exact same thing.
- 9.2.434 Meredith: There!
- 9.2.435 Erik: Ohhhh!
- 9.2.436 Meredith: There! Get it?
- 9.2.437 Erik: Ohhh! see, there are there to that, three to that, and three to that, so it's like, it's a blue plus one would be an orange, plus another would be a new rod, plus another would be a new rod, and if you have

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another one, it'd, you'd, you're just making new rods. Because if you add one of those to that, it'd be an orange, but then you add another two it'd be bigger than an orange.

- 9.2.438 Voice: I got you.
- 9.2.439 David: Told you I got it.
- 9.2.440 Meredith: Or you could just take the oranges and do that.
- 9.2.441 Erik: No, those were uh
- 9.2.442 David You could take out the three six nine
- 9.2.443 Meredith: You could take out the orange and use two ones.
- 9.2.444 Erik: I think the greens would be sixteenths, not
- 9.2.445 David You could take out the three six nine and put a blue in there
- 9.2.446 Meredith: Orange and six ones. Oh, wait a second! Aren't these nines? Aren't these nines, right?
- 9.2.447 Erik: Yeah the blues are nines.
- 9.2.448 Meredith: And these are tens, right?
- 9.2.449 Erik: Yes, those are tens.