

<p>Description: Small group work: Comparing one half and one fourth Parent Tape: Comparing Fractions: Number Names and a Preliminary Method of Generating Models Date: 1993-10-01 Location: Colts Neck Elementary School Researcher: Professor Carolyn Maher</p>	<p>Transcriber(s): Yankelewitz, Dina Verifier(s): Yedman, Madeline Date Transcribed: Spring 2009 Page: 1 of 3</p>
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- 6.0.108 T/R 1: Ok, let's try this one, which is bigger, one half or one quarter and by how much? Which is bigger one half or one quarter? And whichever is bigger by how much? Do you understand the problem? Work with your partner, and build a model and see if you can solve it.
- 6.0.143 Erik: One half or one quarter?
- 6.0.144 Alan: Now I get that the quarter is. Look, here's a quarter. You can't make this into quarters [dark green rod]. A quarter is four parts. But you could make this [orange and red train] into a quarter.
- 6.0.145 Erik: Ah hah
- 6.0.146 Alan: By taking
- 6.0.147 Erik: Actually you can't make it into a quarter
- 6.0.148 Alan: What?
- 6.0.149 Erik: I don't think you can, well, actually you can, these, these will probably [takes light green]
- 6.0.150 Alan: Oh yeah yeah yeah yeah
- 6.0.151 Erik: two three four
- 6.0.152 Alan: Now we eliminate that [moves aside red and white rods]. One half is bigger than one quarter by one quarter.
- 6.0.153 Erik: Exactly! [laughs] That was easy!
- 6.0.154 Alan: Hey, now I quartered it, so I can put these [red rods] back on.
- 6.0.155 Erik: There we go! That's yours, where's mine. There it is!
- 6.0.156 Alan: There we go! A whole model and only sized that [holds a green rod]
- 6.0.158 T/R 1: How many of you think you have a solution? How many of you think you now the answer to that problem and you can prove your answer? Raise your hand if you think you have a solution and you can prove your answer. And you know you have a solution. Ok, I see two different solutions possibly, or two different arguments you have to convince us they're correct. So if you're done and you're waiting you might want to think about a second one. Ok.
- 6.0.159 T/R 1: So have many do you have David, how many arguments can you make, how many models can you build? Okay David said he could build two or three. I see Jessica has two and Andrew has two some of you are building a few models
- 6.0.160 T/R 1: Ok, I see one model up there and there's another one maybe Amy and, uh, James you could build your model when their finished?
- 6.0.162 Alan: Hey, there's another thing you can quarter! Look! There's two ways [two orange rods and four yellow rods]
- 6.0.163 Erik: Oh!
- 6.0.164 Alan: You can quarter a train of orange rods

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- 6.0.166 T/R 1: Ok, um, I really, I saw a new one, Gregory has one I haven't seen yet. Um so I see three of them so far. I see four of them so far Alan has another one I didn't see. Four different models. I am seeing if I can see another one that I haven't seen. I see four different models I see five different models! Andrew has one I haven't seen and Jessica. Five different models! I wonder if you can argue your models. Five of them. Let's see if you can find one that I haven't seen yet.
- 6.0.168 Erik: I wonder if you can quarter this. [As T/R 1 speaks] I got another one! [whispering] All you have to do is keep going down by two. Brown, you minus two, take that rod, and you can quarter that one. Brown, black then dark green!
- 6.0.169 Alan: Dark green can't be quartered, no it can't
- 6.0.170 Erik: Two dark greens
- 6.0.171 Alan: We got it! We have an answer! [to T/R 1] We have four different models
- 6.0.172 T/R 1: Four? So you're going to explain how you got your different models, Alan?
- 6.0.173 Alan: We're subtracting by two. Two down from the orange would be the brown.
- 6.0.174 T/R 1: Could you explain that to Dr. Davis back there? Whisper that to him. Tell him what you're doing to get your models. [To Dr. Davis] I want you to hear this.
- 6.0.175 Erik: [coming back to their seats] -four already. So two from the brown would be yellow
- 6.0.176 Alan: Two from the brown would be two yellows
- 6.0.177 Erik: Yellows- reds
- 6.0.178 Alan: What, no.
- 6.0.179 Erik: Yeah.
- 6.0.180 Alan: No. You can't quarter the yellow. That's just the point you can't
- 6.0.181 Erik: Hold on. Oh yeah, you're right. Purple!
- 6.0.182 Alan: Purple, purple. That's it, that's it.
- 6.0.183 Erik: Purple's reds, then.
- 6.0.184 Alan: Yeah, purple. Two reds for a purple. Definitely, definitely.
- 6.0.185 Erik: Two minus purple would be red! Red
- 6.0.186 Alan: Here's what we'll do. We'll put all our fractions in this box top so they won't break.
- 6.0.187 Erik: We'll just put it on the table. We're ready, oh no we're not.
- 6.0.188 Alan: Yes we are.

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6.0.190

T/R 1: Ok, ok, I think we're almost ready.