Description: Finding Y for X = 84 and 1,250 for Guess My Rule problem 3 Parent Tape: Early algebra: Investigating linear functions, Series 1 of 7: Guess My Rule introduction and Ariel and James with problems 1-3Location: Frank J. Hubbard Middle School – Plainfield, NJ Researcher: Carolyn Maher	Transcriber(s): DeLeon, Christina Verifier(s): Yedman, Madeline Date Transcribed: Spring 2009 Page: 1 of 2

G4	OK, so what if I gave you eighty-four for X?
James	Huh?
G4	What if I gave you eighty-four for X?
Ariel	Let's see. [pointing his finger to G4] I got that on lock down. [Ariel starts extending the table writing 26 in the X column and then stops.]
Ariel	Wait a minute. You said eighty-four, right? That's easy. [James writes in his paper: 84 ×3 252 + 1 = 253]
Ariel	Two fifty three.
G4	[to James] What do you think?
James	Two fifty three for what?
Ariel	I used my rule.
James	Eighty-four?
Ariel	I just used my rule. Eighty-four times three is two hundred and fifty-two plus one is two hundred and fifty-three.
G4	[to James] What do you think?
James	[turning his head towards G4] Eighty-four? Why eighty-four?
G4	I don't know. I picked up any number.
James	Stop giving us these big numbers.
Ariel	[laughs]
James	What if I give a thousand two hundred and fifty?
G4	A thousand two hundred and fifty?
James	[shaking his head] I don't. I don't want to do that. I don't want to do that.
Ariel	[starts writing in his paper and mumbles] [Ariel has written in his paper: 1,250 × 3 3,750 + 1 3,751]
Ariel	Three thousand seven hundred and fifty-one.
G4	My goodness, what do you think about this James?
James	What?
Ariel	One two fifty times three is three seven fifty plus one is three seven fifty one.
Ariel	[pointing something in his paper to G4 who is coming around to his side] I know that there is some pattern… between this one and this one. I don't know how to say it.

G4	Between which one and which one?
Ariel	I know twenty-five times three is seventy-five, there is something out there, I just don't know how to explain it.
G4	What about twenty-five?
Ariel	It is seventy-six. I forgot to write down. [writes something in the paper]
G4	Alright, so what are you noticing with the numbers?
Ariel	Huh?
G4	What are you noticing with the numbers?
Ariel	I just noticed that twenty-five times three is seventy-five that's how I solved this real quick.
G4	Do you think there is anything that is same with what you are doing and what James came up with?
Ariel	Uh, uh, ahhh, I don't know. Oh, wait a minute. Uh, hmm, maybe. I don't know. Because I'm adding three, that's an odd number, he is adding odd numbers, so might be the same. [shrugs]
G4	So might be the same.
Ariel	I'm doing odd and he is doing odds, so … [shrugs again] same thing.
G4	So odd numbers are the common [stops talking and steps back and waves to someone in the background]
Ariel	[to G4] Have you guys got more problems?
G4	I think you should make up your own.
G4	[bending a little towards Ariel] would you like to make up your own so that maybe we could give it to the rest of the class?