Description: Early Algebra Ideas	Transcriber(s): Spang, Kathleen
Involving Two Variables: Clip 5 of 18,	Verifier(s): Yedman, Madeline
Recap of Day 1, Moving from one to two	Date Transcribed: Fall 2010
variables	Page: 1 of 3
Parent Tape: Early Algebra Ideas	
Involving Two Variables	
Date: 1993-10-01	
Location: Harding Elementary School	
Researcher: Robert B. Davis	

RBD	Um, okay, now there was really a sort of neat thing that happened
	last time oh what were we working on? Remember, we were
	doing equations that were box times box minus something times
	box plus something equals zero. What were we taught to do? Do
	you remember what you were trying to find some numbers what
	did those numbers do?
Michelle I	The numbers replaced like the empty boxes or triangles.
RBD	And they made a true statement didn't they when you did it
	said it was equal to zero and that was true. Okay, and we did quite
	a few of those and you got to be quite good at that I think. And
	various people found the secret and I guess by now everybody
	knows what it and we didn't quite agree whether it's was one or
	two secrets, most people say it's two, but I think some people here
	like you persuaded us it's one. Um, what's the secret to that?
Milin	It's one big secret.
RBD	It's one big secret? Matt.
Matt	That the the two multiple the two num the numbers have to
	like when you add them up it has to equal it has to equal the
	number to the, to the left and be multiples of the number to the
	right.
RBD	Well you might not really mean multiples, when you multiply
	them
Matt	Yeah, be able to multiply them
RBD	Yeah, yeah right when you multiply them they give you the
	number on the right and that's certainly right. Okay and I think that
	everybody was good at that. And then we started working on, well
	maybe before I leave that uh those two equations on the bottom
	came up because uh, uh, Milin actually proposed one of them and
	then somebody proposed the other one. Jeff, what was special
	about them.
Jeff	Cause, there were two prime numbers in it so it was like
	impossible
Student	No.
Jeff	or you had to go into decimals or whatever.

<b>Description: Early Algebra Ideas</b>	Transcriber(s): Spang, Kathleen
Involving Two Variables: Clip 5 of 18,	Verifier(s): Yedman, Madeline
Recap of Day 1, Moving from one to two	Date Transcribed: Fall 2010
variables	Page: 2 of 3
Parent Tape: Early Algebra Ideas	
Involving Two Variables	
Date: 1993-10-01	
Location: Harding Elementary School	
Researcher: Robert B. Davis	

RBD	OK, we left that hanging a little bit and I think I'm going to leave it
	hanging again today, but it's a very interesting problem and it
	certainly looks like it might be impossible doesn't it? And we
	might have to use some other kinds of numbers or something.
	OK um now then we started working on the sort of thing that's
	on the top up there. Um, we started with that equation box times
	two plus one equals triangle. Right, and what did we do then,
	Stephanie what did we do?
Stephanie	Well, we had to put a number in the box and a number in the
	triangle so that the equation was true.
RBD	Exactly what we were doing, and when we did that if we put zero
	in that box what number did we put in the triangle?
Stephanie	One.
RBD	One. And we made that table there, right. Okay, and now then we,
	in fact actually um Michelle whereyeah um I'm sorry
	Michelle R. Uh, you remember what you wrote on your paper.
Michelle R	No.
RBD	You want to take it and maybe write it here so that everybody can
	see it. Here, just stand there. Well a couple of them anyhow.
	[Michele goes to write on the board]
RBD	Well, you suppose you can get it if you wrote small do you
	suppose you could get it up by the table the way you did it on your
	paper?
Michelle R	Up here?
RBD	Yeah, cause that was sort of neat the way you did that.
RBD	[Michelle R writes on board ( $\Box \times 2 + 1 = \Delta$ ]
	And you left out one parenthesis; do you see where you left it out?
Michelle R	Oh. [Michelle R closes the parenthesis $(\Box \times 2) + 1 = \Delta$ and places a
	zero in the box and one in the triangle.] Should I do more?
RBD	Well that's probably enough, but she went down and did that, and
	you agree that that's what we were doing?
Student	Yeah.
RBD	Now, what did we do then? We, then we turned the problem
	around and did something different. Michael what'd we do then?
	Michelle?

Description: Early Algebra Ideas	Transcriber(s): Spang, Kathleer
Involving Two Variables: Clip 5 of 18,	Verifier(s): Yedman, Madeline
Recap of Day 1, Moving from one to two	Date Transcribed: Fall 2010
variables	Page: 3 of 3
Parent Tape: Early Algebra Ideas	
Involving Two Variables	
Date: 1993-10-01	
Location: Harding Elementary School	
Researcher: Robert B. Davis	

Michelle I.	We tried to find a secret to it with a pattern like how the numbers
RBD	Okay, and some of you did find a very interesting secret and it might be an appropriate one to share, um no, Ankur says that we
leff	Shouldn't do that.
KBD	Well, okay, well we won't we won't do it just now we will sooner or later. We will sooner or later okay, uh, but we started, we started turning the problem around didn't we and for the other problems I gave you the table. Here, here I gave you the equation and we made the table, right, but now in the other problems, I gave you the table and what are you supposed to do?
Romina	Find the equation.
RBD	Yeah, find the equation. Uh, and now for the second problem, let
me pas	ss this back to you.