Description: Early Algebra Ideas Involving One Variable: Clip 4 of 11, Working on Equations Two and Three Parent Tape: Early Algebra Ideas Involving One Variable Date: 1993-09-30 Location: Harding Elementary School Researcher: Robert B. Davis	**Transcriber(s): Spang, Kathleen Verifier(s): Yedman, Madeline Date Transcribed: Fall 2010 Page: 1 of 5**

Time	Speaker	Transcription
	Davis	Okay well, I've got some of these that I made up that I am wondering if I can get any of them cause they're so hard that none of you can do them.
	Jeff	How about if we make something and have it like be impossible?
	Davis	Not even Michelle, not anybody, not Ankur not Milin no one not anybody. [Off camera: Davis is passing out papers]
	Jeff	Like ninety times ninety minus three hundred sixty minus forty-two plus eighteen equals nine.
	Milin	If it's impossible, forget it. The first one is easy. It's right up there.
	Student	Do we write both of them?
	Davis	Okay. What? Yeah. Would you, yeah write both of the numbers, would you? Yeah, put both of the numbers in. Instead of putting them in the boxes which is going to get messy, why don't you make the brackets notation [Off camera: Davis points to {}] and so the first one is certainly 2 and 3. Isn't it.? Okay.
	Milin	Should we go onto the next one?
	Davis	You may as well.
	Jeff	Didn't we do this one already?
	Davis	Yeah talk with one another about it if you want to but it doesn't sound to me like you probably need to. [Off camera: Davis sits down.]
	Jeff	Oh, it has to be minus fifty-five has got to be our answer.
	Romina	Yeah but sixty-one.
	Jeff	Oh wait! Maybe this will work. It has to be something that will end up in a five. Four times [inaudible] equals five. What times six could possibly equal five?
	Student	Five times five equals twenty-five. It's minus fifty-two.
	Michelle I	We are three off. What a shame.
	Romina	Okay, Bobby you can [inaudible]
	Jeff	Well, maybe if we add more we will still be. See my

	question, are you listening to me?
Michelle I	Yes.
Jeff	It's got to equal minus fifty-five. What times six in the one space, would equal five?
Michelle I	It's got to equal zero.
Jeff	Yeah but it has to equal minus fifty-five plus fifty-five equals zero so what times six would equal five in the one spot?
Romina	Five times five is twenty-five. Eighty, that's minus eighty plus fifty-five equals zero.
Jeff	No.
Student	I got to tell.
Student	What?
Jeff	Try nine. Try nine.
Student	That is.
Stephanie	For number two.
Student	It would be four in the one spot.
Michelle I	Is one table allowed to work together or is it just? Why don't you try it.
Stephanie	Okay.
Ankur	I was thinking something else.
Stephanie	Go ahead Ankur do what you want?
Jeff	Try three. Try three.
Davis	How about the second problem? Hum, would you put up your hand if you have that one figured out?
Student	It's five.
Davis	Amy Lynn, what did you get?
AmyLynn	Five
Davis	Five. How about that? Does five work for the second problem?
Stephanie	Yes.
Student	Yes it does.
Jeff	Does three work?
Davis	Okay, various people say that works. I guess that's true. So let's keep track of that.
Jeff	Three works right?
Davis	For the second one then I'll write the truth sets here. I

	won't try and copy over the equations.
Student	Five.
Davis	I guess, maybe I will. [Off camera: Davis erases the 3's in the boxes for (x) $\square$ (5 x) + 6 = 0 and writes $\{2,3\}$. Davis writes #2 (x) $\square$ (16 x) + 55 = 0]
Student	I think I might have number three.
Stephanie	Really?
Student	What do you have?
Student	Seven.
Milin	I got the next one too.
Stephanie	[Inaudible] forty-nine, ten times seven is seventy.
Davis	Now, uh you told me what number works for the second problem.
Stephanie	It works.
Davis	Five? Is that the only number that works? [Off camera: Davis writes a 5 in the truth set $\{5,\_\}$]
Michelle I	I got number three.
Milin	Is there another number?
Michelle I	Get away from me.
Michael	Seven isn't it?
Michelle I	It's not.
Michael	Yes it is.
Student	I got three.
Milin	Is there another number?
Michelle I	That times [inaudible] would be thirty and that's minus twenty-one plus twenty-one is, it's three.
Matt	I got number three.
Milin	I got number three already. Number three is seven. Three.
Jeff	I got number three. I got number three.
Michelle I	I got number three.
Jeff	I got number three.
Milin	I got another number for number three.
Stephanie	Hey. You got two numbers?
Milin	Yeah.
Michelle I	You can't take the answers from us.
Jeff	You people cheat man.

Stephanie	Dur. Oh duh that makes it a whole much better now, doesn't it? We didn't get it from you. We got it from Bobby.
Michelle I	We are all working together.
Stephanie	I'm not sure that makes it better.
Jeff	I can't believe it wasn't working before.
Michelle I	Let's see what is fifteen minus sixteen.
Milin	Hey you. I said that first.
Michael	Nine minus.
Stephanie	Would you people mind and want to act like civilized human beings.
Jeff	Why don't you?
Romina	There is three pages.
Stephanie	Milin can you keep your hands straight in the air or do you have to go like this?
Davis	Okay. Did everybody agree with this for that third problem? Seven works. Is that right?
Milin	Yeah, I got another one.
Jeff	Did anyone try six yet? Try eleven. Try eleven. Start with eleven. You do twelve, you do thirteen.
Student	I'm eleven.
Jeff	I've got eleven. You do twelve.
Stephanie	Are we working together?
Matt	Yes we are.
Stephanie	Okay, well six doesn't work for the next problem it's too low so it's not enough so I'm gonna try seven.
Matt	I'll try eight.
Michael	Nine times thirty. Nine minus thirty.
Stephanie	Try forty-nine.
Michael	Hold on.
Davis	Okay. I don't know if you can hear what Milin said.
Student	This has to be more than ten or else it's gonna be eleven, eleven minus ten.
Jeff	Yo, I'll do ten. You do eleven. You do three. I mean thirteen.
Michelle I	Nine minus thirty.
Stephanie	No dur, I made a mistake. Just wait a minute. Six might

	work.
Student	Fifteen.
Michael	Nine minus thirty is a negative number.
Michelle I	It is suppose to be a negative number.
Student	No it doesn't work.
Stephanie	No it's not thirty six because when you add them together, when you subtract them you get a four here and it has to be a two here. I didn't finish it yet because I made a mistake on number six and I did six. So I'll do seven. Okay, you do seven. I'll do eight.
Michelle I	It's three. I told you it's three.
Jeff	Where did you get more than ten? It's three but I think it's more than ten.
Michael	It's not more than ten or else it would be not a negative number.
Michelle I	Yes it's got to be negative.
Jeff	Let's look at the next page.