

Description: Early Algebra Ideas Involving Two Variables: Clip 1 of 18, Open Sentences: True, False, Legal, Illegal Parent Tape: Early Algebra Ideas Involving Two Variables 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 4
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Davis Thank You. [Off camera: Davis + $\Delta = 9$] + writes Sometimes you have more than one shape.

Jeff Triangles.

Davis Now if I put some number, if I put some number in the box what do I have to do?

Brian The number in the boxes have to be the same but the number in the triangle can be different.

Student Yeah.

Milin Yeah. So you have to put the same number

Student It could make a rectangle.

Michael I know.

Brian Four, four one.

Jeff Why can't it be three, three, zero.

Milin It can be anything.

Brian Four, four one.

Michael Four, four, one.

Student Three, three, three.

Matt Yeah, it can be six, six, seven.

Jeff It can't be six, six, seven.

Milin It can be.

Michael When does gym start? When does gym start?

Ankur Can it be three, three, three?

Stephanie No.

Brian Why can't it [inaudible] [Davis in the background talking: Put the same number in all the boxes but here I come to a new shape. I don't have to put the same number in, I could if I wanted to or I could put a different number.]

Ankur The triangle can be equal to three and the square can equal thirty-two.

Davis Okay, so now let's try, let's try to do something that will be illegal but make a true statement. [Off camera: Davis + + writes illegal and true under $\Delta = 9$]

Jeff Eight, eight, two. Eight, eight, two. Eight, eight, two. Oh no. I mean one.

Brian Three, three, three.

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Jeff No, one, three.
 Davis Is that legal or illegal?
 Jeff That's cheesy.
 Brian That's still legal.
 Student True.
 Student Six plus two plus zero.
 Davis Let's make one that is legal and a false statement.
 Bobby I know. I know.
 Jeff Okay, eight, eight, two. Eight, eight, two.
 Student Yeah, eight, eight, two.
 Jeff How about two, two, seven?
 Davis Eight, eight and two. Is that legal?
 Milin Yeah, that's legal.
 Davis Yeah because you put the same number in both boxes.
 Jeff Yeah but it's legal.
 Stephanie But it's cheap.
 Ankur A million, a million and one.
 Brian Dude one, one, seven too.
 Ankur A million, a million and one.
 Brian One, one, seven.
 Student Four, four, seven. One, one eight.
 Student Six, six, nine.
 Romina Two, two five.
 Student Three, three, three.
 Brian One, one, seven.
 Jeff I know. I got it, ninety-nine. Oh use some cheesy little Small dippy numbers.
 Davis Legal or illegal?
 Student Illegal.
 Davis One plus two plus three equals nine. True or false?
 Students False.
 Bobby True.
 Jeff Matt, Matt stop.
 Stephanie Who said true?
 Student Bobby.

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Jeff Matt stop it.
 Davis Uh, okay so what is the next question, Michelle?
 Michelle I What is legal but true?
 Davis Yeah, make a legal substitution but make it true.
 Michelle I Four, four, one.
 Jeff What about two?
 Brian What about one, one, seven and what about two, two, five?
 Ankur Three, three and three.
 Davis How about three, three and three?
 Student Yeah.
 Jeff Six, four and two.
 Brian Six, four and two that's twelve.
 Jeff It's eleven idiot.
 Student Six, four and two.
 Jeff Oh!
 Davis We really, we really need it quiet because it really is a very important point. Be quiet so you can hear, Amy Lynn.
 AmyLynn Well, I think that three, three and three is legal because like it's, it's legal for like the two boxes and then like the triangle is a whole new shape so you can start all over again.
 Davis That is exactly correct.
 Stephanie Go Amy.
 Brian Alright Amy.
 Michael What did you say Amy?
 Jeff She said something how it's legal for some stupid reason.
 Davis Would you say it again? Some people didn't hear.
 AmyLynn Alright. The two boxes, alright it's, can be three, it's a legal move and then the triangle it can start all over again with any number. It's a whole, you can start all over again.
 Davis So it is legal and it's certainly true. Is that alright?
 Michael Zippyedydodah.
 Jeff A proctologist.
 Davis I want to show you how really there are lots of things you can do four, four, one.

