Description: Early Algebra Ideas Involving Two Variables: Clip 9 of 18, Problem 6 is Different? **Parent Tape: Early Algebra Ideas Involving Two Variables** **Date: 1993-10-01** **Location: Harding Elementary School** **Researcher: Robert B. Davis**	**Transcriber(s): Spang, Kathleen** **Verifier(s): Yedman, Madeline** **Date Transcribed: Fall 2010** **Page: 1 of 2**

RBD	You know it, you know it all no point in telling everybody he knows it. A lot of people are saying they know the secret, but they're stuck on a certain problem that's giving them difficulties.
Michael	I'm almost done.
RBD	OK, is anybody problem six anybody got six?
Brian	We know what it is, but we can't put it inside the thing.
Romina	Yeah we know it.
Brian	It keeps going up by two.
Romina	No what's in between goes.
Brian	In between like one, three, five.
Romina	He means this doesn't go up by two what's in between it goes up by two.
RBD	Oh, way hey can you come up, let's erase this and come and show us, OK?
Romina	Come on Brian.
RBD	Maybe, maybe we'll go to the camera; maybe we'll go to the camera so they can still think about it, OK. Yeah, yeah good.
RBD	Now this is the microphone here.
Romina	Hold on he has to come up.
RBD	Well, you've got two microphones it won't hurt. Now what you want to do is put it down so that Michael can get his camera set. You got to try and stay out of his way.
Romina	What should I say what I wrote for number six?
RBD	Yeah, yeah.
Romina	Well, I think for six that, like, numbers aren't really, like what's in between; well what's in between the numbers is two. So like, so one, what's between one and two is… well, what I mean is what's between two and five is three and what's between five and ten is five. Then if, when I do all that between one like the numbers in between it goes by two.
RBD	OK, where is it that it goes by two, can you show that? Make sure the camera can see it.
Romina	Well, one, between one and three is two, between three and five is two, between five and seven is two, and between seven and nine is two.
RBD	OK, that's what I need. Now you need to figure out what to do with that, but it's a wonderful idea. Thank you.
Student	Is there an answer for six?
RBD	I'm sorry.
Student	Is there an answer for six?

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RBD	Has anybody figured out the equation for six? Has anybody figured out the equation for six?
Michael	We keep getting those stupid fours in the way.
Student	Negative number.
RBD	Matt have you completed that? OK, come and say that to the camera why don't you?
Michael	This one's ten plus ten that's twenty.
Matt	I didn't figure it out, but it has something to do with the prime numbers, but…
RBD	OK, whoever's going to talk needs the mike, who's talking?
Michelle I	We're both talking.
RBD	You're both talking.
Ankur	He's listening.
RBD	You've got to hold the mike.
Michelle I	See, um, this is how we did it like, like you talk.
Ankur	Whatever the first number is equals the second number.
Michelle I	Whatever number in the box is here
Ankur	So we put two in the second one and always one goes here so if this is three, three goes here and plus one.
Michelle I	See, and if it works here, three times three would be nine and then the one there would be ten.
Ankur	So if it's four.
RBD	But, you haven't quite really found the formula, really.
Ankur	So if it's four, we get four and four that equals eight, sixteen and then plus one.
Michelle I	I think that the secret is that the number in the box always goes, always goes next to it…
RBD	You suppose there would be a way to write that. Can you think of a way to write that? The number that goes in the box is also the number that is next to it. How could you write that? That's a really neat idea, that's a really neat idea.
Ankur	Is that the secret?
RBD	If you can find a way to write it you've really got it figured out.