

<b>Description: Early Algebra Ideas Involving Two Variables: Clip 13 of 18, Sharing Ideas about Problem 6</b> <b>Parent Tape: Early Algebra Ideas Involving Two Variables</b> <b>Date: 1993-10-01</b> <b>Location: Harding Elementary School</b> <b>Researcher: Robert B. Davis</b>	<b>Transcriber(s): Spang, Kathleen</b> <b>Verifier(s): Yedman, Madeline</b> <b>Date Transcribed: Fall 2010</b> <b>Page: 1 of 3</b>
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RBD Do you want to say it to the camera?

Jeff No I don't want to say it. This is going to be the number in the square multiplied by itself plus one always is going to give you the answer.

RBD Yeah, what have you written here, that's very interesting.

Jeff Zero times zero plus one equals one.

RBD But you did something it's neat I think you need to tell that to the camera. Do you want to do it?

Jeff Not really.

RBD Sure you don't? Let me give you the microphone.

Jeff Uh, I don't want to.

RBD But it's a great idea.

Jeff But what am I going to say though.

RBD Well, you can say here this is a good idea.

Jeff That's easy.

RBD Well later on if you want to, but let's say it to the camera right now. Here's the microphone, let me get out of the way.

Jeff How am I going to do this though?

RBD Well, here's what you can do.

Jeff Can I draw it on this?

RBD Well, you could.

Jeff Yeah I'll just draw it on this and show it as an example. When am I going?

RBD We can wait. OK good. So um, Jeff is going to tell you about this problem right here.

Jeff Well what it is, no. Can I start? OK. The number over in the box is always going to multiply by itself in the parenthesis and then you're going to add it by one and you'll get the number that's supposed to be in the triangle. The same thing with this one here, one times one is one plus one equals two. Two times two is four plus one equals five and it just works for the rest of the six. Is that it?

RBD Yeah, good.

RBD See if you can, you helped them get it, can you come and explain it to the camera?

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Brian Yes. OK, you can talk this time. Well, you see that number is the same as that number the code would be square times square plus one equals triangle.

RBD Yeah, that's neat but you didn't write it that way.

Brian I didn't put the square.

RBD That's very nice why does that work? Because the rule says whatever you write in one square you have to write the same in the other square.

Brian That's the same as that.

RBD That's very nice, OK, why don't you write it on this paper now.

Brian You could write it.

Romina Oh, come on.

Brian Just write the code?

RBD Yeah. Put your names on it too so we know who did it. Thank you very much.

Bobby When you minus this one from this one you get the multiplying number.

RBD Yeah, why don't you say that to the camera?

Bobby I already did.

RBD No. it doesn't work for all of them.

Michelle I Could we tell everybody the code?

RBD You want to.

RBD OK, let me say the people with the secret would like to publish it now, when scientists really discovered something they do what they call publishing, they send it to a journal and it gets printed and everybody reads it. You can erase it. Are you ready for them to publish this is that alright? OK, could we get it quiet please? So they say they're going to tell you their discovery now.

Michelle I You have the box time that plus one is the triangle. [She writes on the board  $(\square \times \_) + 1 = \Delta$ ]

Ankur Someone pick a number that will go like here.

RBD OK, Ankur says tell him a number and he'll tell you how it works

Student Eighty-six.

Michelle I Eighty-six is too high.

Ankur They want eighty-six we'll give them eighty-six.

Jeff We don't care just show us how to do it. They're just going to do eighty six to make us mad.

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Michelle I      Now what's eighty six times eighty-six, you said eighty-six now figure that out.

Student      You said you could solve. Do it.

Ankur      We can if we had a piece of paper.

Michelle I      If you have the number here and the number here is going to be the same as the number here what do you think that is going to be for the code?

RBD      OK, this is really the key pint so it would be very important to listen carefully because they're really telling you the secret.

Michelle I      If the number here is going to be the same as the umber here, what shape do you think that is going to be?

Student      A square.

Michelle I      That's it that's the whole thing that's the code. That's the code.

Ankur      Isn't that easy?

Jeff      That's the code - square times square plus one equals triangle?

RBD      That's what you had too isn't it?

Michelle I      I told you.

Jeff      That isn't very difficult. If we knew what it was we just didn't put it down how it was supposed to be.

RBD      OK, does everybody understand that? OK, let's see if anybody can do number seven.