| Description: Early Algebra Ideas | Transcriber(s): Spang, Kathleen |
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| Involving Two Variables: Clip 1 of 18, | Verifier(s): Yedman, Madeline |
| Open Sentences: True, False, Legal, | Date Transcribed: Fall 2010 |
| Illegal | Page: 1 of 3 |
| Parent Tape: Early Algebra Ideas |  |
| Involving Two Variables |  |
| Date: 1993-09-30 |  |
| Location: Harding Elementary School |  |
| Researcher: Robert B. Davis |  |


| Davis | Hum, instead of using this method [ $\}]$ that I was using, let's use this method to keep track. |
| :---: | :---: |
| Brian | I have a question. Shouldn't you make the square a triangle since the square and the triangle [inaudible]. |
| Jeff | I have a question. What if there is two triangles? |
| Brian | Two times two plus one equals, there should be two triangles. |
| Jeff | That is so stupid. Do they have to be the same? Can't you put a rectangle down and have it? |
| Davis | Yeah. |
| Brian | That should be. |
| Davis | I urge you by and large not to use rectangles and circles. Some people use them but the circles look like zeros and if you are. |
| Jeff | How about a hexagon? Can we use them? A pentagon? |
| Student | One and three. |
| Jeff | A octagon? [Davis is picked up on another camera: Careful the rectangles and the squares tend to look alike. Now suppose I put, so we can write the truth set this way. Davis writes the truth set in a table format, with the box in the left column and the triangle in the right column.] |
| AmyLynn | Put a stop sign. |
| Davis | Suppose I put zero in the box. What would I put in the triangle to make it true? |
| Milin | One. |
| Student | One. |
| Student | One. |
| Student | One. |
| Jeff | One. |
| Davis | So that, what this says is |
| Jeff | There is no secret. |
| Davis | That if you put zero in the box and one in the triangle, it would be true. This is the so called truth set again. |
| Jeff | Is there a secret here? |
| Davis | Well, there might be. |


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$\left.\begin{array}{ll}\text { Jeff } & \begin{array}{l}\text { I have a question. If you know it, how can it be a secret? } \\ \text { Yilin }\end{array} \\ \text { Yeah, if another person knows it too, how can it be a } \\ \text { secret? }\end{array}\right]$

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| Stephanie | Oh God! not the watch. <br> Davis |
| :--- | :--- |
| Suppose I put two in the box, what do I have to put in the <br> triangle to make it true? |  |
| Student | Five. I think it's five. <br> If he knows a secret, it's not a secret anymore. What are |
|  | If hou doing? <br> If I put three in the box, what do I have to put in the <br> triangle? |
| Davis | Seven. |
| Student | Seven, oh this is so easy. Four and nine. |
| Jeff | I know the secret. |

