

<b>Description: Clip 1 of 2: Introducing and working on the problem</b> <b>Content: Shirts and Pants with Stephanie and Dana</b> <b>Researcher: Amy Martino</b> <b>Date: 1990-10-11</b>	<b>Authors: Madeline Yedman</b> <b>Verifier: Dasom Lee</b> <b>Date: 2014-05-05</b> <b>Page: 1 of 6</b>
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Line	Time	Speaker	Transcript
<b>1</b>	1:00	<b>R1</b>	Okay we are going to do two problems today. And I think that you're going to find that they are challenging, but they are fun. Okay, now I am going to give you your very first problem and you're each getting this paper with the first problem on it. And what you have to do is solve the problem, but it is like last year guys I'm really interested in how you solved the problem. I want you to be able to explain that to me on your paper. Okay, so say your answer was twenty-four or something like that. That's fine and good, but I want to know how you got that twenty-four okay? And you can do that in any way that you'd like. You can write, you can draw, whatever. Explain that to me but whatever you do on here, I want you and your partner to decide what you're gonna put on the large paper. Remember when we did this last year? Okay so you're going to decide what your group answer is, and how you did it and put it on a large paper for me.
<b>2</b>		<b>Stephanie</b>	I guess we're gonna use these (holding up marker)
<b>3</b>		<b>R1</b>	You can use the markers if you want, just be careful
<b>4</b>		<b>Stephanie</b>	I'll use the light blue marker, and then if I draw a picture ill use the dark one.
<b>5</b>		<b>Dana</b>	Yeah, I'm gonna use them both
<b>6</b>		<b>Stephanie</b>	The little one doesn't write that big, so I'll have more room.  Reading the problem: Stephanie. Wait Stephen. Stephan has a white shirt, a blue shirt, and a yellow shirt. Want me to read it out loud?
<b>7</b>		<b>Dana</b>	No I'll do it. He has a pair of blue jeans and a pair of white

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			jeans. How many different outfits can he make?
8		<b>Stephanie</b>	Well why don't we draw a picture?
9		<b>Dana</b>	Okay. He had a white shirt.
10		<b>Stephanie</b>	So I'll make white shirt.
11		<b>Dana</b>	A blue shirt.
12		<b>Stephanie</b>	Think I'll have to use this big marker for this one. You know to color it all in.
13		<b>Dana</b>	And a yellow shirt.
14		<b>Stephanie</b>	Why don't we just draw a "y" a "b" and a "w".
15		<b>Dana</b>	That's what I'm doing.
16		<b>Stephanie</b>	"w" "b" and "y". Okay let me read this, he has a blue jeans and a pair of white jeans. Okay, so I'm going to make a blue, blue. <i>Inaudible</i> Okay so lets find out how many different outfits you can make. You can make white and white. That would be one.
17		<b>Dana</b>	White and Blue, White and Blue that would be two.
18		<b>Stephanie</b>	So white and...
19		<b>Dana</b>	Blue
20		<b>Stephanie</b>	white shirt or white pants?
21		<b>Dana</b>	I know we have that, so we have two cause you could put the blue with the white
22		<b>Stephanie</b>	wait, the blue with the pants and the white shirt
23		<b>Dana</b>	Now we could have three, the blue pants and the blue pants.
24		<b>Stephanie</b>	Hang on Dana you're going too fast here. And we could

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			have the blue and the white that would be three. The blue and the blue that would be four. So we got four! And we could have the yellow... how many do you have so far? Four?
25		<b>Dana</b>	One, two, wait no. One...
26		<b>Stephanie</b>	We could have the yellow and the white.
27		<b>Dana</b>	One two three four five, I have six so far.
28		<b>Stephanie</b>	I've got one, two, three, four, five. What are your other combinations? I have white and blue, I got white and white, I've got blue and white, I've got yellow and white. What were your two other combinations?
29		<b>Dana</b>	I mean I have six.
30		<b>Stephanie</b>	So what were your two other combinations?
31		<b>Dana</b>	You mean one other combination.
32		<b>Stephanie</b>	I only have four.
33		<b>Dana</b>	The yellow and the blue
34		<b>Stephanie</b>	Yellow and the blue...and what was your other
35		<b>Dana</b>	Yellow and the white.
36		<b>Stephanie</b>	I put the yellow and the white.
37		<b>Dana</b>	Okay, then the blue and the white.
38		<b>Stephanie</b>	Five, six. Oh, okay so now I have six.
39		<b>Dana</b>	Amy we're done.
40		<b>R1</b>	You're done?
41		<b>Stephanie</b>	No Dana we don't know if we can make any more

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			combinations or not.
42		<b>Dana</b>	We cant!
43		<b>R1</b>	Make sure okay? Talk about it and make sure.
44		<b>Dana</b>	We can't.
45		<b>Stephanie</b>	Okay, you're right it's six.
46		<b>Dana</b>	Amy we're done. The answers six
47		<b>Stephanie</b>	It's six.
48		<b>R1</b>	Are you both convinced of that?
49		<b>Stephanie and Dana</b>	Yes
50		<b>R1</b>	Can you explain it to me?
51		<b>Stephanie</b>	Well okay. If we have three shirts and two pants, we just drew...
52		<b>Dana</b>	Lines and we made combinations
53		<b>Stephanie</b>	And they all make combinations.
54		<b>Dana</b>	And that equals the six combinations
55		<b>Stephanie</b>	Like we make white and blue Dana?
56		<b>Dana</b>	Yeah white and blue, blue and white, yellow blue and yellow white.
57		<b>R1</b>	So six? What are these lines you drew, you drew lines between the shirts and the pants.
58		<b>Stephanie</b>	So we could make sure that we were, that we did not do that again and say seven, eight, nine, ten. We drew lines so that we could count our lines and say oh we can't do that again,

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			we can't do that again.
<b>59</b>		<b>R1</b>	Oh, that's very nice. And you're sure that there were six?
<b>60</b>		<b>Both</b>	Yeah.
<b>61</b>		<b>R1</b>	Positive there aren't seven?
<b>62</b>		<b>Dana</b>	nope.
<b>63</b>		<b>R1</b>	Okay, what I want you to do then as a pair, is to open this up and take a fat marker take either the blue or the red and draw this for me.
<b>64</b>		<b>Dana</b>	How about we each do one thing?
<b>65</b>		<b>Stephanie</b>	Cause Dana you can write and I'll draw, cause you're a better writer.
<b>66</b>		<b>Dana</b>	Okay.
<b>67</b>		<b>Stephanie</b>	Cause I'm not good at writing. Where are you gunna write and where and I gunna draw?
<b>68</b>		<b>Dana</b>	You'll draw in these two squares, I'll write up here.
<b>69</b>		<b>Stephanie</b>	How about you draw one sentence, and I'll draw some shirts. Combination
<b>70</b>		<b>Dana</b>	How do you spell it?
<b>71</b>		<b>Stephanie</b>	I don't know, how about you..
<b>72</b>		<b>Dana</b>	Com-bin-a-tion.
<b>73</b>		<b>Stephanie</b>	Okay, now that's the sentence right?
<b>74</b>		<b>Dana</b>	Yeah
<b>75</b>		<b>Stephanie</b>	Okay now let me write some picture on here. Wait I have to look at this in order to write how many shirts and pants. Um

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			white shirt. “w” I’ve got a blue shirt, I’ve got a yellow shirt, and then a...okay Dana. Now many another sentence telling how we did this. Dana you’re writing in script.
76		<b>Dana</b>	I know
77		<b>Stephanie</b>	I can’t read in script! What if they pick me to go up?
78		<b>Dana</b>	They’ll pick me.
79		<b>Stephanie</b>	Right. Dana what did you write?
80		<b>Dana</b>	That’s our answer.
81		<b>Stephanie</b>	Then what is six? Oh.
82		<b>Dana</b>	I got it on my hands.
83		<b>Stephanie</b>	I just wanna know what you wrote here Dana cause I can’t understand you.
84		<b>Dana</b>	We got six combinations. Well we drew lines to make the combination and we got as an answer six.
85		<b>Stephanie</b>	Hold on for one second. I just want to look at these. Now let me see how many combinations we got. One, two, three, four, five, six. Okay you’re right, six combinations. Lets call Amy or somebody over here.
86		<b>R1</b>	People are still recording these so you can keep them. Can I ask you a question?
87		<b>Dana</b>	Yeah
88		<b>R1</b>	What I’d like you to try on the back while we’re waiting. What if now I gave you all the same clothes, but I also gave you another pair of jeans a black pair of jeans.