Description: Towers Group Sharing, Clip 5 of 6:	Authors: Madeline Yedmen
Stanhania and Dana work on finding toward	Varified, Bohart Siglay
Stephanie and Dana work on Inding towers	vermed: Robert Sigley
three cubes high	Date: 12/07/13
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Researcher: Professor Carolyn Maher	
Tape: Towers Group Sharing	
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Line	Time	Speaker	Transcript
1	00:00	Т	What were we trying to figure out? After you figured out?
2	0:08	Matthew	Take one block and there would be two. One take one block away from each pattern.
3	00:14	Т	And then?
4	00:15	Matthew	And then count up how many you have.
5	00:19	Т	Do you think we have enough time?
6	00:20	T2	We should be.
7	00:21	Т	Say everybody, with your partners, see if you can figure out(everyone talking at the same time.) Remember that each one has to be different. And all the others are different.
8	1:00	Stephanie	One, two, three, four, five, six, seven, eight, nine, ten, eleven. Okay, twelve, thirteen, fourteen, fifteen, and sixteen. And then we can probably go one, two, so we can have one that looks like this. Red-red-blue and red-blue-blue. Yup we do. And, let's see. If we had something like blue-red-blue
9	2:05	Dana	How about, try red-blue-red? I mean, red-blue-blue?
10	2:08	Stephanie	I doubt it. Let's try these ones, okay? How about red-blue- red?
11	2:17	Dana	We have one.
12	2:24	Stephanie	There are two red-blue-blue. Oh, so that would be less than sixteen. So we take this one away and throw it in the trash.
13	2:43	Dana	Amy, we think there is less.
14	2:44	Amy	Oh, why?

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15	2:46	Stephanie	Because we took one away. We had two of these so we got
16	2:56	Amy	(Asked a question but inaudible).
17	2:58	Stephanie	Well, we can't have more than same (sixteen) because
18	3:07	Amy	Are there any more that are the same?
19	3:08	Stephanie	Uh
20	3:10	Dana	Yes. Yes. Yes.
21	3:13	Amy	Why don't you put all the ones that are the same on this side over here?
22	3:15	Stephanie	Okay we will but I just have to find that other one so I could find what is missing again And it was this one.
23	3:28	Dana	And red and red. So that's thirteen so far.
24	3:34	Stephanie	Thirteen but where are the blue missing parts for them? Here? Now, what else is missing? Dana, please.
25	3:46	Dana	This one goes over here and this go here, and this go here. These two and these two (inaudible).
26	4:03	Stephanie	Amy, so far we got fourteen.
27	4:04	Amy	Okay, are there more that are the same there?
28	4:07	Stephanie	Well, we checking. So far, none I see.
29	4:13	Dana	*points at a duplicate* Twelve.
30	4:19	Stephanie	So we are taking away one part from the tower. And when you take them apart, they can be different. But, let's see.
31	4:35	Amy	Are you sure that you got them all now?
32	4:36	Dana	I don't know.

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33	4:38	Amy	Okay, just keep looking.
34	4:40	Dana	Eleven. *Takes away another duplicate*
35	4:42	Stephanie	Where is its' match?
36	4:42	Dana	Eleven, I mean ten.
37	4:54	Stephanie	Do we have to keep these in order anymore? This is hard. (Inaudible) we got ten, and Jamie and Michael are doing the same thing.
38	5:10	Amy	You are right.
39	5:13	Dana	Oh, nine.
40	5:18	Stephanie	So it seems that we could take off the thing (block) up here to (she's explaining how she can take a block away from a four block tower to make a three block tower. And how the blocks will have same patterns).
41	5:35	Amy	Okay, so how many different towers for each different three cube tower do you think you can have?
42	5:40	Stephanie	Well, so far we have one, two, three, four, five, six, seven, eight, and nine. Nope, it's eight.
43	5:52	Amy	Let's see. Why is it eight? Where are the other ones?
44	5:55	Stephanie	These are the match.
45	5:57	Dana	Eight, (inaudible).
46	6:02	Stephanie	I couldn't guess that either but (inaudible) patterns. No, I don't think there is any more (duplicates). Eight, we have eight.