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Time	Speaker	Transcript
	R3	(Inaudible) What do you think of that? X plus y
		plus x plus y? It's a square right?
	Stephanie	Uh-hm
	R3	Space, space (inaudible) and if you think of- if you
		thinklet's say from here to here-from here to here
		is x,
	R1	Use this. Go off with the dark pen
	R3	Listen, okay. Let's look at that one and look at
		that one. This is a square. Okay, these are all the
		same. Say from here to here is x and from here to
		here is v. Now can you do the same thing on this
		side and on this side and on this side?
	Stephanie	Yeah you can do it on all the sides
	R3	Then why don't you do it. See what you get
	R1	Can you tell me again what's x and what's y?
		Steph. I wasn't sure I'm following what she did.
	Stephanie	Oh this is x and this is y
	R1	Okay How does that work here if it's a square?
	Stephanie	Hmm-It'll be the same thing here. It'll be this is v
	Stephanie	and this is r and this is v and this is x and this-and
		this is x. Oh to find the snace inside could Liust
		do-Will I be able to just do four y plus four r^2
	D2	How about we connect this?
	KJ Stanhania	Ob (Inoudible) Here?
	Stephanie	
	Speaker	(Inaudible) Yea. So now much is this?
	Stephanie	So how much is that? That's x.
	R3	Okay. And how much is this one here?
	Stephanie	That's y.
	R3	Okay. Let's connect this also.
	R1	I think what Seiham is asking- that you have-you
		have these regions. Right.
	Stephanie	Um hm
	R1	Okay. And um- she wants you to-she wants to
		know if you could figure out how much space is in
		this region and this region and this region and this
		region.
	Stephanie	Oh. Okay
	R1	Do you understand the problem?
	Stephanie	Yea, I understand.
	Time	TimeSpeakerR3StephanieR3R1R3R3R3R3R1R3R1R1StephanieR1StephanieR1StephanieR3R3R3R3R3R3StephanieR3StephanieR3StephanieR3StephanieR3StephanieR3StephanieR1R1StephanieR1R1StephanieR1StephanieR1StephanieR1StephanieR1StephanieR1

25	R1	If you know what these sides are.
26	Stephanie	(Inaudible)
27	R1	-These pieces are.
28	Stephanie	Should I count these two too?
29	R1	I don't know. I can't see really what you're doing.
30	Stephanie	Should I count these two too?
31	R1	Um, I think you ought to redraw the picture.
32	Stephanie	Alright. Alright.
33	R1	You want to make a square. It has to be a square
		to start.
34	Stephanie	(Inaudible) I can't draw. Alright, that's supposed
		to be a square
35	R1	Ok now
36	R3	(Inaudible) The bigger it is the easier
37	R1	Yea, if it's bigger, it's easier.
38	Stephanie	Alright
39	R1	(receives instructions from the video instructor))
		So why don't we make it um- (inaudible) what is
		that one-(inaudible background noise)- that might
		help. Do you want straightedge? Do you have a
		tray over there so we can do straight edge?
		Something- so that you make your sides.
		(Inaudible) Okay.
40	Stephanie	Okay.
41	R1	Well you want-um how bout something like this
42	Stephanie	Alright
43	R1	So why don't you come mark.
44	Stephanie	Okay. So this is <i>x</i> . Opps
45	R1	That's not a good part cause its turned
46	Stephanie	Okay. That's x.
47	R1	-Why don't you
48	Stephanie	You want me to justOkay.
49	R1	Let's do the same thing here. Ok, let's just mark-
		one of these is going to be an <i>x</i> and one of these is
		going to be a y. I don't care which way you do it.
		Alright. Okay.
50	Stephanie	Okay
51	R1	Now once you know that, you should know a lot
		of other pieces.
52	Stephanie	Yea.

53	R1	Why don't you label what you know.
54	Stephanie	So this is going to be x and this is going to be y.
		This is also x and this is also y. Opps. And then
		this is x and this is y
55	R1	Neat. Okay, so I think the question is, can you find
		each of these regions. Here's a region right
56	Stephanie	Okay
57	R1	That's a square.
58	Stephanie	Yeah.
59	R1	You know its dimensions?
60	Stephanie	Uh huh. y by y.
61	R1	Ok so why don't you write-how would you write
		that and with algebra in the middle. Write what
		that is.
62	Stephanie	Could I write y squared?
63	R1	Sure. Ok so you know how much this is?
64	Stephanie	Uh huh
65	R1	Can you do that for all the others.
66	Stephanie	This one is x squared. This is an easy one.
67	R1	Yes. Ok. So now this is not a square anymore
		right?
68	Stephanie	No
69	R1	What is it?
70	Stephanie	What
71	R1	This piece?
72	Stephanie	Oh this is a rectangle
73	R1	Okay so what would that be? Do you know the
		length and width?
74	Stephanie	This would be <i>x</i> times <i>x</i> and <i>y</i> times <i>y</i> . 2x
75	R1	Now you want the area remember not the
		perimeter.
76	Stephanie	Oh. 2x times 2y.
77	R1	Is that what it is?
78	Stephanie	Only there's two x's and two y's. Right?
79	R1	Okay let's go back to remembering how to find the
		area of a rectangle. Okay? Do you remember how
		to find the area of a rectangle. This is let's say 3
		and this is 2.
80	Stephanie	Oh you just multiply them it would be <i>x</i> times <i>y</i> .
		(sighs)

81	R1	What were you thinking?
82	Stephanie	Perimeter. And then (inaudible) like the-Okay.
83	R1	This happens to the college students all the time
		Steph so don't be embarrassed.
84	Stephanie	x times y and this would be x times y too. Or it
		could just be <i>xy</i> .
85	R1	Alright
86	Stephanie	So-it could be either one
87	R1	Okay now, you know the area of this piece
88	Stephanie	Uh huh.
89	R1	You know the area of this piece. You know the
		area of this piece. You know the area of this piece.
90	Stephanie	-So do I know the area of the whole thing?
91	R1	Do you know the area of the whole thing?
92	Stephanie	Well-I guess it would be like-um plus y times-
		what-(R3 asks question) four
93	R1	Okay. Can you simplify that? Does that look
		familiar to you?
94	Stephanie	Yea.
95	R1	How can you simplify that?
96	Stephanie	How can I simplify that more? Um oh, okay.
		(inaudible) Or let me-I just have to write it like
		that first.
97	R1	Sure
98	Stephanie	Actually, I'll just make a really big dot.
99	R1	That's not a dot that's a plus.
100	Stephanie	(laughter) Well, it-
101	R1	Shouldn't this be-
102	Stephanie	-Oh that's right, that should be a pl-no that should
		be a minus
103	R1	Aren't you adding all these?
104	Stephanie	Yeah, alright so that's right I guess.
105	R1	-And this one should be a plus too
106	Stephanie	Okay. Um so can't there just be 2xy
107	R1	Uh huh
108	Stephanie	Plus x squared plus x squared
109	R1	Okay, now remember what was the length of the
		side of the square?
110	Stephanie	Um. What it was <i>x</i> plus <i>y</i> ?
111	R1	That was <i>x</i> plus <i>y</i> .

Description: Building a geometric	Transcriber(s): Aboelnaga, Eman
model of (x+y)(x+y)	Verifier(s): Yedman, Madeline
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Location: Harding Elementary School	Page: 5 of 5
Researcher: Professor Carolyn Maher	

112	Stephanie	Yeah
113	R1	Now remember that this whole side is <i>x</i> plus <i>y</i> and
		what was the length of the other side?
114	Stephanie	X plus y, x plus y. They were all x plus y.
115	R1	So you said one side was x plus y, right?
116	Stephanie	Uh huh, yeah.
117	R1	How do you get the area of a square?
118	Stephanie	Multiply it by the other side.
119	R1	Right
120	Stephanie	Oh. Its the same thing.
121	R1	Do you like that?
122	Stephanie	Yeah
123	R1	Gee, thank you Seiham
124	Stephanie	Thank you. That was tricky. It was the same
		thing