Description: Night Session – Pascal's Identity, Clip 4 of 7: An example of Pascal's Identity Parent Tape: Night Session – Pascal's Identity Date: 1999-05-12 Location: David Brearley High School Researcher: Professor Carolyn Maher	Authors: Uptegrove, Elizabeth B. Verified: Poprik, Brad Date Transcribed: 2003 Page: 1 of 3

Line	Time	Name	Transcript	Coding and Explanation
1.	00:00	R1:	Write your next row, Michael. Now some time ago you, you had a reason. You explained to me-	
2.		Michael:	Why you add.	
3.		R1:	Why you add.	
4.		Michael:	Yeah.	
5.		R1:	You remember that? You, might, might be useful for folks who haven't heard it to hear it whatever way you want to explain it.	
6.		Michael:	I don't think I can explain it too good. Um.	
7.		R1:	Um, you know, however you want to explain it. You've had it a few ways.	
8.		Michael:	Um, I can't, I can't remember too well. I know why you add, if I explain it, I don't think anyone will understand.	
9.		R1:	Try.	
10.		Michael:	I didn't. Didn't I tell you guys like last time I came here?	
11.		Jeff:	Well, go for it, dude, just-	
12.		Romina:	You could try.	
13.		Michael:	You don't have that paper, do you? You can just hand them, hand that out.	
14.		Romina:	You started talking about toppings. I think something-	
15.		Michael:	Hand that out instead.	
16.		Jeff:	Just-	
17.		Michael:	Um, all right. If, all right, let's go to, let's go to this one. This would be like three different places I guess. And um-	
18.		Jeff:	Which one are we looking at?	
19.		Michael:	That one right there. You have three-	
20.		Jeff:	That would be a plus b to the third.	
21.		Michael:	All right, let's say you have like, here's a number, all right? Zero means no toppings. One would, this, one would be-	
22.		Romina:	It would be, one's a topping.	
23.	01:19	Michael:	One would be a topping. So first category is everything with no toppings. And that's, you can't make, that's, that's your number for that one.	

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24.		Michael:	Next would be- There's all the, the ones that have one topping.	
25.		Jeff:	Right, you got to make that zero at the end. You messed up.	
26.		Michael:	What?	
27.		Jeff:	Last one should be a hundred, not a hundred and one.	
28.		Michael:	I knew that. There's your, um, your three choose one. And there's three different combinations you could put that. Um, I can go on forever doing this.	
29.		Michael:	But, um, when you have a new, when you add another place, another topping-	
30.		Jeff:	That could be one or the other, one or the other, one or the other	
31.		Michael:	So it could be one or the other.	
32.		Michael:	It could be a zero or a one, a zero or a one, a zero or a one.	
33.		Jeff:	Yeah. All right.	
34.		Michael:	So all these threes would either move up a step onto the next category and, uh, have two toppings.	
35.		Michael:	Or they might stay behind and still only have one if they have the zero.	
36.		Michael:	So three, three will get a topping, and go to this one.	
37.		Michael:	And three won't, will stay.	
38.		Michael:	And obviously this guy's going to get a topping. That's why you add this one.	
39.		Jeff:	Uh-huh.	
40.		Michael:	So now this guy's going to have, without toppings. You're going to add a topping onto him. That's going to be one topping. These three with one topping won't get one so, you know-	
41.		Jeff:	That's their four.	
42.		Michael:	You put, you can put them in the same category as this one.	
43.		Jeff:	Yeah.	
44.		Michael:	That's four.	
45.		Jeff:	Those are your four.	
46.		Michael:	And you know-	
47.		Ankur:	Three.	

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48.		Jeff:	Those three.	
49.		Michael:	The three that had two toppings won't get any.	
50.		Jeff:	Yeah. So they'll go to [Inaudible.].	
51.		Michael:	And you could put them in together with the ones that did get something. That's why you would add. Keep on adding.	
52.		R3:	What do you mean by toppings?	
53.		Michael:	Pizza toppings.	
54.		R3:	Um, for example-	
55.	02:58	Michael:	Like here you would have a choice of three different ones. Here you would have a choice of five and like the ones would be like the mushrooms, the peppers, the whatever, just by going like- The one would indicate you have it or not.	
56.		R1:	OK. OK. I remember.	
57.		Michael:	You remember.	
58.		R1:	I remember this.	