1	STATE OF FLORIDA
2	DEPARTMENT OF EDUCATION
	AMERICAN INSTITUTES FOR RESEARCH
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4	FLORIDA'S RACE TO THE TOP
5	STUDENT GROWTH IMPLEMENTATION
6	COMMITTEE MEETING
7	University of Control Florida
8	University of Central Florida
9	Teaching Academy Building
10	Orlando, Florida
11	
12	Thursday, May 20, 2011
13	Volume 1
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16	DEPARTMENT OF EDUCATION: KATHY HEBDA, Deputy Chancellor for Educator Quality
17	JUAN COPA, Director, Research & Analysis
18	AIR MEMBERS PRESENT: JON COHEN, Ph.D., Executive Vice-President
19	HAROLD DORAN, Ed.D., AIR, Principal Research Scientist
20	CHRISTY HOVANETZ MARY ANN LEMKE
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1 2 3 4 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 12 13 14 15 16 7 18 19 20	2 (Whereupon, this is an uninterrupted continuation from Volume 1, to-wit:) * * * * * * DR. DORAN: Good morning, everybody. Welcome back to day two. We have some very thoughtful and helpful questions coming in from the web yesterday, and so we had something over 70 people watching on. We'll try and do our best. We want to thank you folks for watching online as well as here in the room. We covered a pretty tremendous amount of ground yesterday. Let me just refresh us in terms of where we have been. We started six weeks ago with a more policy oriented and thought experiment oriented-type discussion on what are the different model types, what are some of the issues about value-added modeling, what are some of the models that seem most sensible, and we had some pretty interesting conversations surrounding those kinds of	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	4 We looked at what we called parsimony. Which of these models include variables that seem to be about the right amount of variables to make accurate or good enough predictions of school and teacher effects? We didn't look at classifications consistency just yet. We looked at I need to remember my criteria precision, parsimony PANEL MEMBER: Lags. DR. DORAN: Lags. We looked at whether or not we want to include one lag or one prior test score or two lags, two prior test scores, and one of the criteria we looked at again for making that decision was whether or not the standard errors were smaller under one lag model or under the two lag model, and then we had a very lengthy discussion on whether the school effects needed to be included in the model or not. We finished the day yesterday more or less with a conversation about which of those models
21	policies and model genres of models. From	21	you are most comfortable with at this point.
22	there during that six week period, we ran a	22	After evaluating them through the lens of those
23	number of different value-added models in both	23	criteria, you came to a tentative or pretty
24	math and in reading, eight different model types	24	close to final discussion on where you are with
25	across seven different grades. That is well in	25	the models that you like most, but you're not
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1	excess of over 115 models or so.	2	done yet. There are some lingering questions
2	We started the day yesterday with a	2	and things that you wanted to say, particularly
2 3	We started the day yesterday with a description showing the teacher effects and the	3	and things that you wanted to say, particularly on the school effects.
2 3 4	We started the day yesterday with a description showing the teacher effects and the school effects estimated across the different	3 4	and things that you wanted to say, particularly on the school effects. Jon spent a pretty significant amount of
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1	6 question today to the best of our ability.	1	8 model, as well as the covariate that would be
	The other question that is still a	2	included in that model. So that's the big
2	lingering issue was the inclusion of covariates.	2	picture for today. Does anybody have any
4	Which of the covariates should be included? All	4	issues, comments, concerns before I turn this
5	of them? Some of them? I think there was a	5	over to Jon to start the discussion on the
6	sentiment in the room that some of them should	6	school effects and the average value-added
7	be included, but there's still an issue of which	7	effect by district?
8	ones. Some of the variables were not	8	Yes?
9	significant. There may be some questions on	9	MS. WOODHOUSE-YOUNG: Don't you remember we
10	whether categories should be collapsed or not.	10	also had a discussion, if I recall properly,
11	We'll continue that conversation here today.	11	about whether the data for the whole of Florida
12	There are a couple of questions that we had	12	was representative of the different areas of
13	here, the intact school effects. We also want	13	Florida, southern Florida, northern, et cetera.
14	to look at the average value-added effect across	14	I seem to remember a discussion on that, and
15	the districts in one of the models. There was a	15	hopefully the data today will renew our minds of
16	question on scale size, how many students need	16	some of that.
17	to be in a teacher's class or you estimated a	17	DR. DORAN: We're going to show you
18	reliable teacher effect. We'll move through	18	district by district of value added effects by
19	that one pretty quickly. That has a relatively	19	district.
20	straightforward answer.	20	Okay. That's this second one. That is
21	Then from there we're going to look at some	21	, what you're going to show them, right?
22	consequences. We're going to look at	22	MR. COHEN: I'm prepared to show.
23	consequences in terms of expectations, what are	23	MR. DORAN: I've put him on the spot.
24	the different expectations, conditional on	24	Any other questions before we start the
25	different kinds of students, predictions for	25	day?
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1	growth for students that are ELL, gifted, and so	1	All right. I want to make just one
2	forth. We'll show you those data.	2	comment. Yesterday was a lot of information and
3	We also have correlations of the	3	a very challenging day, and when we briefed last
4	value-added effects from all of the models with	4	night we were extremely pleased with the level
5	things that you think are correlated with the	5	of conversation, the questions, the challenges
6	value-added model. So things that you think	6	and the issues. We would hope that that would
7	would be related to high value-added effects, we	7	continue today. We know that this is a
8	show those correlations within as well as some	8	difficult topic; we know that we have real world
9	other factors. We'll go through the slides.	9	consequences. We know that this group has a
10	Whenever we finish that, we'll turn the	10	vested interest in getting this right. We want
11	microphone back over to Sam who will facilitate	11	to encourage you today to continue with these
12	a continuing conversation on now that we have	12	hard questions, those were challenging issues.
13	most of the information, what are the lingering	13	We want you to try and press us to find the
14	issues? Where do you need more data? Where do	14	answers that you need so that you have the
15	you have more questions? I want to remind you	15	information so that when you leave here today,
16	that Jon and I have data not everything, but	16	remember, you're making a recommendation and
17	we have a substantial amount of data we can	17	ultimately this group has to defend as the
18	tonalities in the back if there are still some	18	ambassadors of this model. Anyone in this room
19	lingering issues. You can try and call back to	19	if you left here today without all of the
20	AIR if you need something else, but we'll see	20	information you needed to make you fully
21	depending on what the issue is. We can try and	21	comfortable with making the recommendations that
22	generate some additional analyses and results	22	you need to make today.
23 24	for you.	23	So please, with what happened yesterday
24 25	We want Sam to facilitate the conversation where we move towards a recommendation of a	24 25	just continue that today so that we can move forward giving you all of the information and
25		23	forward giving you all of the information and
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1	being as transparent as we can possibly be.	1	I'm going to open up a spreadsheet. All
2	All right. We're going to turn it over to	2	right. It actually didn't take all that long
3	Jon and we'll go forward.	3	for this spreadsheet together.
4	DR. COHEN: Impact of school effects.	4	MS. BROWN: Can I just throw out a little
5	Round 2. Let's try this again. I guess when	5	point of thought? I want to be careful because
6	Harold said I'm going to tell you the impact of	6	I know when we get into school effect a lot of
7	teacher's scores of school effects, I'm going to	7	times what we're really trying to get at is we
8	answer that question now, and when I say I'm	8	don't set up a model that incentivize teachers
9	going to answer the question, I'm not really	9	to leave our most needy schools and stay in
10	going to answer the question.	10	other schools because they could get a better
11	I'm going to do my best to make clear the	11	effect. That's what we are all trying to get
12	question and then we can work towards an answer.	12	at. But we also have to be careful that we
13	A bunch of us were talking earlier this morning	13	understand the terms because in the value-added
14	about it and Sam raised this example. Suppose	14	world, the term high growth, which would be a
15	you have two schools and one is a very high	15	high performing school, or low growth which
16	growth school. All the kids are learning an	16	would be a low performing school in value-added,
			that's not identical to high achievement as in
17	extra ten points we won't choose a number	17	-
18	an extra ten points, and you have another school	18	greatest percentage of level three and above
19	that's a very low performing school. All of	19	readers and low achievement, because you can be
20	those kids are learning like ten points less	20	a high achieving school with zero growth in your
21	than elsewhere in the state.	21	students.
22	If you take a teacher from school A, the	22	Therefore, you would be low performing in
23	high performing school, and move them to school	23	value add, but you could be a lower performing
24	B, assuming that the same teaching methods work	24	school achievement-wise, maybe in a very urban
25	and they do, yes, and you need individualized	25	poverty school but have high growth and be
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
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1	instruction and all that, assuming everything	1	13 considered a high value add school. So it's
1 2		1 2	
	instruction and all that, assuming everything		considered a high value add school. So it's
2	instruction and all that, assuming everything else is the same can that teacher produce	2	considered a high value add school. So it's important to understand the difference between
2 3	instruction and all that, assuming everything else is the same can that teacher produce will that teacher produce the same results, 10%	2 3	considered a high value add school. So it's important to understand the difference between those two terms as this conversation rolls
2 3 4	instruction and all that, assuming everything else is the same can that teacher produce will that teacher produce the same results, 10% more than the average in that second school?	2 3 4	considered a high value add school. So it's important to understand the difference between those two terms as this conversation rolls forward, I think. Okay. Sorry.
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1	there because they have high levels of growth.	1	important. I think you had mentioned yesterday
2	MR. FOERSTER: Right.	2	about the ceiling effect. When you hit that, do
3	MS. BROWN: That's the school kind of in	3	we say if the growth isn't great in a high
4	the middle that has both pieces. So I have to	4	achieving school that those teachers are not
5	remember that.	5	performing well?
6	MR. LeTELLIER: I think that's one of the	6	MS. BROWN: And then we have to remember,
7	dilemmas of discussion is that we ought to have	7	and I'm so sorry that I've derailed this
8	a list of some basic assumptions that fit into	8	discussion; I hope I'm not derailing it. If I
	-		· · ·
9	these categories, so you could eliminate that	9	am, you all just tell me to be quiet. But we
10	confusion if we had such a list in writing; we	10	have to remember, too, when we also define
11	could see that.	11	growth you've got to remember what does growth
12	MS. BROWN: Well, I think you have to	12	mean in value-added versus what does growth mean
13	remember for the purposes of this discussion	13	as we have known it in the past in a simple
14	what we're talking about is focused around	14	growth model?
15	value-added school effects and teacher effects.	15	In a simple growth model in the past, it
16	Therefore, when we use the terms "high	16	was if you're here you have to move up or
17	performing" and "high growth", you just have to	17	there's no growth, but in value-added it may be
18	remember that a school that's getting a lot out	18	that you're here super high and your prediction
19	of their kids, not necessarily a school that has	19	or expectation is to be right there or just a
20	the highest levels of achievement as defined by	20	little bit above. So the ability to show growth
21	our state test.	21	may be not always but may be different.
22	MR. LeTELLIER: That's kind of what I was	22	MR. LeTELLIER: In how it appears.
23	getting at yesterday because I've talked to	23	MS. BROWN: Exactly.
24	several of you individually at lunch, et cetera,	24	MR. LeTELLIER: Absolutely.
25	but it's the fact that we don't want to handicap	25	MS. FEILD: I think a lot of this may
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	15		17
1	a teacher because they're at a good school	1	resolve itself if the accountability model moves
1	a teacher because they're at a good school	1	resolve itself if the accountability model moves
2	that's achieving well, and then where do they go	2	towards using BAN (ph) as growth because what
2 3	that's achieving well, and then where do they go from there? So I think that's the concern. I	2 3	towards using BAN (ph) as growth because what you have now is two different models. It's
2 3 4	that's achieving well, and then where do they go from there? So I think that's the concern. I don't think there's anybody in this room that	2 3 4	towards using BAN (ph) as growth because what you have now is two different models. It's going to be confusing. So if accountability
2 3 4 5	that's achieving well, and then where do they go from there? So I think that's the concern. I don't think there's anybody in this room that doubts that there is a school effect. I mean,	2 3 4 5	towards using BAN (ph) as growth because what you have now is two different models. It's going to be confusing. So if accountability replaces what they call growth with a
2 3 4 5 6	that's achieving well, and then where do they go from there? So I think that's the concern. I don't think there's anybody in this room that doubts that there is a school effect. I mean, everybody understands that administration,	2 3 4 5 6	towards using BAN (ph) as growth because what you have now is two different models. It's going to be confusing. So if accountability replaces what they call growth with a value-added, then they'll be in sync, right? So
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	10	1	00
-	18		20
1	maintain their level four or five, but they made	1	what we need.
2	minimal growth on their value-added, how are you	2	MR. FOERSTER: So do you just we all
3	going to sit when they tell you on your	3	want to agree that there is a school effect, it
4	evaluation you were a low performing yet 100% of	4	needs to be apportioned 50% to the teacher;
5	your kids stayed above proficiency because of	5	what's that mean? Is that what we're asking?
6	the value-added, the way it was worked out? So	6	MS. BROWN: What I'm hearing is we all
7	I think that that could lead to I agree with	7	agree there's a school effect. The question is
8	you that there would be different expectations,	8	how will it be applied in the value-added
9	but I actually think that that would lead to a	9	calculation and what decisions will we need to
10	bigger problem because teachers are going to	10	make. But not just tell us, show us. If we say
11	compute their own growth. They're going to	11	it's 5%, this is what it looks like. If we say
12	continue to do it on the old model and justify	12	10, whatever, the numbers that we had yesterday
13	whatever score because they're never going to be	13	if we say 50, whatever, kind of what does
14	able to compute a value-added model on their	14	that look like in some real scenarios?
15	own, so they're going to go by that mantra that	15	MR. FOERSTER: And you're prepared to
16	we've had, and it's going to take many years, I	16	deliver a 50/50, right? Is that what your model
17	think, to kind of un-educate them to move away	17	up here does?
18	from that.	18	It takes us through some scenarios where
19	DR. COHEN: I'll continue with this or we	19	here's world one where there's only teacher
20	can just decide that there are school effects	20	effect, here's world two where there's school
21	and they're due partly to the teacher and partly	21	effect, and it's 100% school
22	to the school, and then we can move on.	22	DR. COHEN: Yeah, but not with real data,
23	MR. FOERSTER: That's an interesting point	23	with simulated data
24	of clarification here because we can beat this	24	MR. FOERSTER: Well, sure, sure.
25	to death. I think we gave it a good wail	25	MS. BROWN: It's numbers; it helps.
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	19		21
1	yesterday and we can pick up the stick if you	1	DP COHEN: I mean I have that and we
1			DR. COHEN: I mean, I have that and we
2	want to, but I think where we're all at is that	2	could very, very quickly in like ten minutes
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	22		24
1	half. Again, 50% is just a number plucked from	1	impacted score.
2	the air.	2	Okay. So under these different assumptions
3	All right. So we start I made up the	3	about how the world works, you wind up with
4	schools and we can change this if you want.	4	different numbers, different actual observed
5	School 1 has a minus 50 point common component,	5	patterns of growth, and you can see the growth
6	so on average students at that school are 50	6	down here below. So is everyone with me so far?
7	points less than the state average in growth.	7	All right.
8	School 2 is exactly the opposite; it's a more	8	Now we're going to go to estimate teacher
9	effective school with higher growth, 50 points	9	effects. True teacher effects are about 100,
10	above the school average, and this particular	10	there's a little bit of randomness in the thing;
11	teacher, we'll call him teacher Harold who's the	11	we can compute this and get new numbers if I
12	good teacher, Harold has a 100 point effect,	12	press in a button. If only the teacher matters,
13	true effect. Under any world, this teacher is	13	the right thing to do is to attribute any common
14	going to increase the student's achievement by	14	component to the teacher because we know that's
15	100 points, what the teacher is causing.	15	the thing that matters and if you do that you'll
16	So we can count and put him in the lower	16	get unbiased estimates in both schools of about
17	growth school with his class and they have	17	100 points. And we know that Harold induces an
18	his class is an average score here, it says	18	extra 100 points of learning among his students
19	1,477; and the prior score entering and at exit	19	and so that's the right answer.
20	after he has taught them, they're up about 300	20	Now we move over to the parallel universe
21	points to 1,778, right? We dig Harold.	21	where there are real live school effects that
22	Remember, we're in the world where only the	22	Harold can do nothing about. If we attribute
23	teacher matters. We take Harold and his class	23	all the school effects to Harold, we're going to
24	magically transport them to school two. That's	24	estimate his effectiveness at only 50 points in
25	the really higher growth school and you see	25	the lower growth school and 150 points in the
	American Court Reporting 850.421.0058		American Court Reporting 850.421.0058
	23		25
	23		25
1	exactly the same result Why? Because the	1	higher growth school In this case, it would be
1	exactly the same result. Why? Because the	1	higher growth school. In this case, it would be bias: it wouldn't be a fair estimate of Harold's
2	school doesn't matter. So the kids' exiting	2	bias; it wouldn't be a fair estimate of Harold's
2 3	school doesn't matter. So the kids' exiting scores are the same in those two schools because	2 3	bias; it wouldn't be a fair estimate of Harold's impact on the school. In that world, you get
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1	standpoint, as well, because how we make the	1	two lags and they've made growth; and so we can
2	attribution, how we decide how much goes to the	2	measure that. That same model is applied to the
3	school effect and the teacher effect may depend	3	entire school, but you're describing this as
4	on which way we want to err. If we want to err	4	compared to the State. So I just want to make
5	 and we're talking about this a little bit 	5	sure that I'm clear because now that's whole
6	before the meeting, if we want to if there	6	'mother differential that's coming into. Now my
7	will be some error as to some people being	7	growth is now being compared to the State and so
8	overrated and some people under-rated, do we	8	I just want to make sure
9	want the error to be in favor of teachers at	9	DR. COHEN: It is in fact all of these
10	lower performing schools or at higher performing	10	are comparative. Remember the progression line
		-	
11	schools or higher growth schools to clarify the	11	with the scatter plot we put up before? That
12	vocabulary? I think that's a decision that we	12	State level if you create an expectation and the
13	need to think about, which I think goes to Jon's	13	value-added, so that comes under the expected
14	question before.	14	growth and we're looking at the value-added, the
15	Do you in some way limit the teachers at	15	amount of extra growth beyond that or less
16	the higher performing schools? And you may have	16	growth relative to that statewide expectation.
17	to, at least as I understand it, in order to	17	So there is a State component there.
18	make sure that we're fair to the people at the	18	MR. COPA: Just one clarification. State
19	lower performing schools.	19	average based on the parameters of the model.
20	MR. LeTELLIER: I think part of looking at	20	So it's not just one number, simple average.
21	this, it's maybe it's kind of how you look at	21	DR. COHEN: Yes, given the two years prior
22	what school effect means. If we're looking at	22	achievement and the
23	it here, it may mean one thing. If we're	23	MR. COPA: Everything we have in the model.
24	looking at it from the way we're all thinking in	24	DR. COHEN: Okay.
25	a general term, we know the school has a	25	MS. TOVINE: Which model which one is
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1	positive effect. What does that mean, you know,	1	the truest representation of a teacher effect?
2	using this nomenclature, I guess, just trying to	2	DR. COHEN: In which universe? See, that's
3	put that together with how we're putting	3	the essential policy choice because we don't
4	together a model. If I'm reading the chart	4	have a technical answer. Are there things in
5	right, the more that you add a school effect,	5	the school that the teacher can't affect that
6	the less that a teacher has a chance to show	6	influence student achievement? If the answer to
7	growth.	7	that is no, then this is the right model and
8	So different from what we're thinking,	8	this is going to be the truest unbiased
9	which is schools do affect the situation. In	9	estimates. So this is what you want to do if
10	the model here, the more that you add from that	10	that's true. If there are no things let me
11	the less, you know, the spread so to speak is	11	start over.
12	less for how a teacher can look good or bad, I	12	If there's nothing at the school that
13	think, because as you go higher with the school	13	affects students that the teacher can't
14	effect then obviously that will prevent the	14	overcome, if the teacher is the only influence
15	teacher from getting too low as well, correct?	15	on learning at the school, then you're in this
16	MS. HALL: I have a question. You're	16	universe and your unbiased estimate comes in
17	talking about schools here in this model and in	17	PANEL MEMBER: The same.
18	school 1 it's minus 50 points compared to the	18	DR. COHEN: when all the effects are
		-	
19	State. Now that's not my understanding; I just	19	attributed to the teacher.
20	want to make sure that we're clear is that when	20	MS. STEWART: I'm trying to get this clear
21	we're talking about a school effect at negative	21	in my mind, but I think - my thought is if this
22	50, I'm talking about the entire growth that has	22	is a super star at a low growth school, I'm
23	happened at my school in relation to what's	23	having trouble with their being penalized by
24	happening in the classroom. My teachers have	24	including the school effect. They naturally are
25	shown growth with their students because we have	25	affected by the school effect because they're
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1	there, if in fact we believe that there is a	1	teacher.
2	school effect. The reverse is true as well. If	2	MS. STEWART: No, I'm saying the top
3	a less than highly effective teacher is in a	3	left-hand is the better representation of the
4	high growth school, we're hiding their lack of	4	teacher effect.
5	ability to get that student growth that most of	5	DR. COHEN: So we know that this teacher's
6	the teachers in that school are getting. So you	6	true effect is 100 points, right? We made them
7	have swung the other direction and they've even	7	up and we generated the data, so that teacher is
8	been in that school that had the great school	8	adding exactly 100 points to all the students,
9	effect and in spite of that they were unable to	9	we still prefer to model an approach that
10		10	attributes 150 points to that teacher and a bad
11	DR. COHEN: Right, but what you're doing is	11	score and 50 points to that teacher and a good
12	you're not describing this world, you're	12	score. That's a decision we can make.
13	describing this world over here. And there if	13	MS. FEILD: I think the question really is
14	all of the common component at the school is due	14	if you have that teacher and that was the only
15	to school effects, again an assumption, then you	15	person who instructed those children every
16	get the unbiased estimate when you compare it to	16	single day, are we saying that we're not going
17	the school average.	17	to give that school credit for after-school,
18	MS. STEWART: Yes, I don't think that's	18	before-school, Saturday tutoring,
19	what I'm saying. I think I'm saying on the	19	push-in/pull-out? That's what we're saying.
20	left.	20	We're saying that it would be like a doctor
20	DR. COHEN: Well, one thing you said was of	20	who's treating you and you're going to say that
22	course they're affected by the school effect,	21	it doesn't matter that you took the medicine or
	right? That put you in this world.		not or whatever other that you happen to go
23		23	, ,, ,
24	MS. STEWART: Or what I'm saying is there	24	every day and go drink after you left, or you
25	is a school effect, but in spite of that school	25	took your medicine or you didn't take it when
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	31		33
1	effect they either had really high growth in a	1	you had to; you know, you're attributing it all
2	low growth school or the reversal of that.	2	to that one person. I'm not saying what's right
2 3	low growth school or the reversal of that. That's really what I'm saying, Jon; I may not be	2 3	to that one person. I'm not saying what's right or wrong, but if we only look at that teacher
2 3 4	low growth school or the reversal of that. That's really what I'm saying, Jon; I may not be saying it well.	2 3 4	to that one person. I'm not saying what's right or wrong, but if we only look at that teacher then anything else that's happening at the
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	34		36
1	that part	1	manifest themselves in terms of what teachers do
2	PANEL MEMBER: That's a school effect.	2	in classrooms, so there's interaction there.
3	PANEL MEMBER: School effect.	3	I also think if there are things that
4	DR. COHEN: Let me ask a couple of	4	teachers can do mentoring is just an example
5	questions just to make sure I understand what	5	just given, collaborative learning communities
6	you're saying.	6	within schools that will have the ability to
7	So do you believe that there are	7	elevate the school effect and all teachers will
8	independent school factors not associated with	8	benefit. I think that interaction between what
9	the teacher that affect the students' growth?	9	teachers do in school and school effect, both
10	MS. STEWART: Yes.	10	input and output, is in fact a philosophical
11	DR. COHEN: Okay. Then we are in this	11	argument for some apportionment approach to how
12	world, okay. So we're in this world but that's	12	we deal with school effect. I don't think
13	okay because there are different estimates we	13	they're independent variables. I think they
14	can get in this world if we want by doing	14	play off each other and I think a well managed
15	different things. Now, the teacher, Harold, is	15	school will leverage the teacher talent to
16	a 100 point value-added teacher. We know that	16	elevate the school effect for everybody.
17	that's true. You don't have to perform to give	17	MS. BROWN: Okay, I want to make sure that
			we all can read the chart because that's what's
18 19	him an unbiased 100 point estimates. You may prefer, I think, to give him one of these other	18 19	important here. Now I'm going to go out there
20	estimates.	20	because I'm probably going to get told I'm
21	MS. HALL: I think for clarification is	21	wrong, and I'm at least ready to go there.
22	that when you get a number where you have 101	22	What I think we're seeing is if in fact the
23	and 101. What they're saying is is that is the	23	number one decision is which universe do you
24	most accurate measure, and so the half-and-half	24	believe in. So once you pick that belief, then
25	when you attribute half of the measure to the	25	what we had said was which attribution gets us
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	35		37
1			
	school and half to the teacher, you get the most	1	the most unbiased score? So if you believe in
2	accurate measurement when it is at half-and-half	2	universe one, you have to go with line three.
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	00		40
	38		40
1	a less than effective teacher to look better	1	how it's calculated? I mean, understanding that
2	than they are because they're in a school that	2	the way you get a school effect is having the
3	has a very high effect. So if we're setting up	3	model with the student information, it rolls up
4	that system fairly where there's unbiased scores	4	to, it's the sum of aggregate of all that
5	then we're okay with that. I'm hoping that that	5	student stuff becomes the school effect. Then
6	solves her question.	6	the question is, how much of that is part
7	MS. WOODHOUSE-YOUNG: But it also means	7	from the teachers, part from the school
			environment itself? It's not like you just pick
8	vice versa, too?	8	
9	MS. BROWN: Yeah.	9	a number and say this is the school effect.
10	MS. WOODHOUSE-YOUNG: That's important.	10	It's all in the same calculation, if I
11	MR. LeTELLIER: I wanted to say I was	11	DR. COHEN: That's right. That's very
12	thinking about this and I had a little bit of a	12	helpful. Thank you.
13	light bulb go on inside my head for my world.	13	MS. BROWN: It starts at the student level,
14	MS. BROWN: That's a good thing.	14	so the student's predictions are calculated and
15	MR. LeTELLIER: Yeah. But I was looking at	15	there's a number for that student. So all of
16	this and something struck me, which is we're	16	the students get added up to each teacher.
	-		
17	assuming that we have to take and do this as a	17	That's where the teacher effect comes from, but
18	50% or that we have across the board with all	18	then the sum of all of the students enrolled in
19	schools. What if the school effect was measured	19	the school. It's not really a sum, I'm just
20	by some sort of a rubric or point system?	20	using that as a loose term, but the sum of all
21	Therefore, you're because we would all agree	21	the students in that school become the school
22	at some schools they are managed better than	22	effect. So it's not a separate calculation;
23	others. If we're going to say that some	23	it's the same calculation, it's just who it's
24	teachers teach better than others then some	24	rolled up to and who's included in it. So the
25	schools are managed better than others. I mean,	25	idea is if the sum of all the students in the
23	American Court Reporting	23	American Court Reporting
	850.421.0058		850.421.0058
	39		41
	34		41
1	at any level you can make that assumption.	1	school is 'X', what contributed to that?
1 2	at any level you can make that assumption. If we make that assumption, is there a way	1 2	school is 'X', what contributed to that? MR. LeTELLIER: So are we saying
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2	at any level you can make that assumption. If we make that assumption, is there a way	2	school is 'X', what contributed to that? MR. LeTELLIER: So are we saying
2 3	at any level you can make that assumption. If we make that assumption, is there a way to take and make we all know that there's a	2 3	school is 'X', what contributed to that? MR. LeTELLIER: So are we saying MS. BROWN: Was it only the teachers or was
2 3 4	at any level you can make that assumption. If we make that assumption, is there a way to take and make we all know that there's a school effect of some sort. Is there a way to take and make some sort of a sliding scale	2 3 4	school is 'X', what contributed to that? MR. LeTELLIER: So are we saying MS. BROWN: Was it only the teachers or was there something else? MR. LeTELLIER: No, but are we saying that
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		-	
	42		44
1	DR. COHEN: No, there's nothing magical	1	back there's a fourth universe there, very much
2	about a 0.5 other	2	like you said, but they are half-and-half that
3	MS. EDGECOMB: Okay, whatever. And if we	3	we attribute it to what we believe is the
4	believe that, and we do believe that the school	4	greatest factor.
5	effect is important but maybe not as important	5	MS. BROWN: So it doesn't really matter, it
6	as the teacher effect, can we do a not a	6	could be anywhere on this scale. We pick the
7	half-and-half, 25, 75, I mean, can you do that?	7	scale.
	DR. COHEN: Any numbers you like.	8	
8		-	DR. COHEN: Right, because we don't know
9	MS. EDGECOMB: Well, now, is that a guess	9	the true answer; we don't know which one they're
10	or is that	10	going to live in among the infinite possible.
11	MS. BROWN: No, no, I	11	So we choose the one that in our professional
12	MS. EDGECOMB: We have to decide	12	judgment is the one that we think this is
13	philosophically what we believe, and then we	13	reasonable, we think this is the most likely and
14	can, I think, then we move to attributes where	14	then you attribute it that much.
15	we assign to that that would indicate	15	MS. EDGECOMB: Yeah.
16	philosophically where we are.	16	MR. FOERSTER: Point of clarification, Jon.
17	MS. BROWN: This is what's important, I	17	As you have constructed this chart, is teacher
18	think, because when you look at these numbers	18	effect equal to actual average growth of the
19	the implication is there's a range from 0 to 1.	19	teacher minus the school effect?
20	The closer you are to 0, that's the skew you	20	DR. COHEN: Only in this world. Look,
21	would see in the third universe to the right,	21	because remember where we started. The student
22	and the closer you are to 1, that's the skew you	22	scores changed as you moved from world to world.
23	would see. But that's because the universe is	23	MR. FOERSTER: Okay. If I believe that
24	half-and-half.	24	there is no school effect which is universe
25	MS. EDGECOMB: Right.	25	wide, am I correct in assuming that the teacher
23	American Court Reporting	25	American Court Reporting
	850.421.0058		850.421.0058
	43		45
	43		45
	MC DDOWNLy If you need a fay with white and		offerst thet ensue that we used by we wanted for
1	MS. BROWN: If you made a fourth universe	1	effect, that score that would be reported for
2	that was 80/20 was 90/10, whatever it is. Then	2	the teacher, is 100 points which is exactly what
2 3	that was 80/20 was 90/10, whatever it is. Then if your attribution equals your universe belief,	2 3	the teacher, is 100 points which is exactly what we see in terms of average student growth? And
2	that was 80/20 was 90/10, whatever it is. Then if your attribution equals your universe belief, you would still have an unbiased score.	2	the teacher, is 100 points which is exactly what we see in terms of average student growth? And is that true in both schools because we don't
2 3	that was 80/20 was 90/10, whatever it is. Then if your attribution equals your universe belief, you would still have an unbiased score. DR. COHEN: That's right.	2 3	the teacher, is 100 points which is exactly what we see in terms of average student growth? And is that true in both schools because we don't believe in a school effect, right?
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		1	
	46		48
1	MR. FOERSTER: In real world one. Okay.	1	DR. COHEN: Yes, and I don't think that you
2	Where I'm going is that in world two the same	2	need to make the decision about that; and
3	formula still seems to hold. Teacher effect in	3	correct me if I'm wrong, Kathy or Sam or Juan, I
4	that case is equal to the actual growth	4	don't think you need to decide on that
5	demonstrated by the kids minus the school	5	percentage today; you just have to decide that
6	effect.	6	you want to apportion it and therefore you must
7	MR. TOMEI: Whatever the percent is.	7	estimate the things that they do so you have the
8	MR. FOERSTER: Right? Because you're	8	number in hand to apportion. I think once
9	assuming that in this case the teacher effect is	9	you've done that we can bury this once.
10	still 100, but because our formula is teacher	10	MS. TOVINE: A simple question which may be
11	effect equals actual growth minus school effect	11	obvious to everyone else but not to me; which
12	you run it all through school one, the school	12	one of those scores, which row, is the one that
13	effect is minus 50 points.	12	
	•	-	would actually be attributed to the teachers'
14	DR. COHEN: Right, and this is all good as	14	evaluation? Is it the last bottom row, 18?
15	long as you don't confuse school effect as	15	DR. COHEN: No, the last bottom row is the
16	you're using the term right now with a common	16	actual growth.
17	component within schools that we estimate.	17	MS. TOVINE: If I'm looking at it as a
18	MS. BROWN: Yes, because that assumes that	18	teacher, as a principal, and I'm sitting down to
19	everything in the school effect is the teacher	19	do evaluations and I want to know what the
20	had nothing to do with it.	20	actual value or score would be for the teacher
21	MR. FOERSTER: Common component.	21	to complete their evaluations on that part of
22	DR. COHEN: Yeah, so	22	the evaluation system, where am I looking?
23	MR. FOERSTER: But we are using those terms	23	MS. BROWN: In other words, where's the
24	interchangeably through the course of this	24	teacher effects?
25	conversation, right?	25	DR. COHEN: It's the 100 points and that's
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	47		49
1	DR. COHEN: Even here there's a common	1	the thing that is a little confusing to me in
1 2		1 2	
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2	DR. COHEN: Even here there's a common component, right? The common component in this	2	the thing that is a little confusing to me in the top part of that chart is that you've got
2 3	DR. COHEN: Even here there's a common component, right? The common component in this world, also, because in school one they tend to	2 3	the thing that is a little confusing to me in the top part of that chart is that you've got attribution in world one when there is no
2 3 4	DR. COHEN: Even here there's a common component, right? The common component in this world, also, because in school one they tend to have teachers associated with lower growth. The	2 3 4	the thing that is a little confusing to me in the top part of that chart is that you've got attribution in world one when there is no attribution. I mean, the only one that makes
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	50		52
1	contributing to the overall growth	1	look at that and make it fair for things like
2	MR. FOERSTER: Right, so rather than I	2	encouraging collective accountability for
3	think where we're all coming from is that we	3	student achievement, we all own all students
4	wanted to see how the different assumptions	4	that walk through our doors, versus things that
5	how do I say this? If we assume that student	5	we have completely no control over ZIP codes,
6	growth was constant, how would that effect how	6	school resources, magnet programs, student
7	the teacher effectiveness score is impacted?	7	population demographics, all of those things
8	And what you've actually done is created	8	that come into the mix.
9	something that assumes the opposite, that the	9	MR. TOMEI: I totally agree and I think
10	teacher effect is constant and how do these	10	that part of what we're trying to do here is
11	different universes what does that imply in	11	build an accountability model that will help us
12	terms of student growth?	12	move education forward in the state then part of
13	That's the best interpretation I've gotten	13	that philosophy and the decision we have to make
14	to this point. Just because it's a little	14	because this is not a science what that
15	counterintuitive, I think that's for me,	15	apportionment should be, one of the decisions is
16	that's what he has me hosed up. I didn't	16	do we try and get our arms around what we think
17	realize that we were assuming in every case that	17	the apportionment is right now, or do we set the
18	the teacher effect is 100, and what does that	18	bar at what do we think is in the ideal school
19	imply in terms of student growth in every	19	the maximum amount of school effect that
20	universe?	20	collectively teachers can take ownership of.
21	What it implies is that if you don't	21	So there are always going to be some
22	believe there's a school effect then a teacher	22	components of school effect that are totally
23	effect of 100 means that the average growth per	23	independent of the teachers, but much that
24	kid is 100. If you believe there is a school	24	teachers can influence. If we think in an
25	effect and it should be fully attributed to the	25	absolutely perfectly managed school with great
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	850.421.0058		850.421.0058
	51		53
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1	school then the teacher effect if it's 100 is	1	learning communities and 100% student engagement
1 2	school then the teacher effect if it's 100 is going to be actual student growth minus the	1 2	on a school level that teachers then can produce
	school then the teacher effect if it's 100 is going to be actual student growth minus the school effect, right? So in the case of school		on a school level that teachers then can produce 80% of school effect, then my argument would be
2	school then the teacher effect if it's 100 is going to be actual student growth minus the school effect, right? So in the case of school one where you've got a very large negative	2	on a school level that teachers then can produce
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2 3 4	school then the teacher effect if it's 100 is going to be actual student growth minus the school effect, right? So in the case of school one where you've got a very large negative school effect, the actual growth that the teacher generates is only 50 points, but they	2 3 4	on a school level that teachers then can produce 80% of school effect, then my argument would be that's we ought to set the bar for apportionment because we want to set the bar to encourage maximum attainment of overall school
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1	terms of teacher effect as reported relative to	1	DR. COHEN: Where did Harold go? Harold
2	actual growth, you know, and I think the	2	would have a better answer for this, but I think
3	relationship really is just this teacher effect	3	that often it's zero or one. This is not a
4	equals actual growth minus school effect; we're	4	discussion folks have and if it's zero then you
5	arguing about co-efficient. We don't have to	5	wind up with the mean teacher effect being zero
6	decide that today.	6	at each school; and if it's one you wind up
7	Can we just agree that we want our model to	7	attributing all school effects to the school.
8	include school effect and move forward? Ms.	8	Harold, are you aware of other states or
9	Hebda, would that be	9	other value-added applications where they make
10	MS. HEBDA: That's exactly what I wanted to	10	
-	•	-	an explicit choice about the apportionment of
11	talk to you about. At some point, you are going	11	DR. DORAN: No.
12	to have to decide that.	12	DR. COHEN: So usually it either includes
13	MR. FOERSTER: Do you want it decided	13	school effects and subtracts those off of the
14	today?	14	teacher effects entirely or doesn't include them
15	MS. HEBDA: Well, that depends. One of the	15	and attributes everything to the teacher?
16	things John and I were just talking about was	16	DR. DORAN: The only statewide
17	what they can do to help you come to that	17	implementation that I'm aware of is the
18	decision possibly today. Ultimately, they have	18	Tennessee value-added model and there it's
19	to know what the apportionment is to run the	19	complete attribution to teachers. There are no
20	final numbers, so you do need to get there.	20	estimation of school effects there. In other
21	MR. FOERSTER: Okay. Sorry.	21	states where they do some growth models, they
22	MS. HEBDA: Not in the next ten minutes	22	use models. They don't use value-added models
23	necessarily, but you do need to get there. So I	23	in the same way that you're proposing to use
24	think maybe the next discussion if that's where	24	them here. So the only other statewide
25	you want to see how long it would take you, you	25	implementation that's comparable to the effort
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	55		67
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1		1	57 that vou're looking at here, that's all on
1	might need maybe the next discussion for the		that you're looking at here, that's all on
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	58		60
1	included there are fewer teachers that appear to	1	much did you attribute
	have high value-added and fewer teachers that	2	•
2	-		DR. DORAN: I did three experiments. This
3	appear to have low value-added, as we would be	3	is just me trying to get my head around this. I
4	expecting. That's what happens. You just get	4	created a using Model 3C I created a teacher
5	fewer teachers who would be identified in those	5	effect that was weighted at 0.2 of the school
6	extremes because some effect is served by the	6	20% of the school and 80% of the teacher; and
7	school effect. I sort of toyed around with	7	then I correlated that with the teacher effect
8	creating different proportions in Model 3C of	8	that you get under the teacher only model and
9	what would the world look like if you had a	9	that correlation was 0.91.
10	school effect that was weighted 0.8 and a school	10	MS. FEILD: So yours was 20-80?
11	effect that was weighted at 0.2; and I created	11	DR. DORAN: Twenty percent and 80 percent.
12	that and ran that correlation with the teacher	12	Then I created another one that was 50-50 and
13	effect only model and then correlated about	13	correlated that with the teacher only model and
	•	14	the correlation was 0.85.
14	0.91. I don't think there is any number. I		
15	think that's complete pure professional judgment	15	Then I ran a correlation then I did one
16	decision; of the school effect how much gets	16	more that was 80% school, 20% teacher and the
17	apportioned to the teacher and how much gets	17	correlation with the teacher only model was
18	apportion is weighted for the schools.	18	0.62. These are obviously, looking at these
19	MR. FOERSTER: And that's the danger of	19	from my own I'm not advising this
20	making that number too high, right?	20	DR. COHEN: Let me make an offer. How
21	DR. DORAN: Just so you know, as you weight	21	about we return to the specific proportion after
22	the school effect weighted lower, the	22	lunch? I'll run some stuff and show you some
23	correlation between the new teacher effects, the	23	graphs that show you how they're related to each
24	weighted teacher effects and the teacher effect	24	other, what it means in terms of teachers, and
25	only model, it also gets lower.	25	in terms of teachers and schools. I don't know
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	850.421.0058		850.421.0058
	59		61
1	MR. FOERSTER: So at this point what is the	1	exactly what that will all give you, but that'll
2	pleasure of the committee in terms of defining a	2	buy me and Harold some time to look into it.
3	co-efficient? It seems that's the work at hand	3	MS. GINN: Jon, can we give you some
4	here. We're all in accord that we want the	4	examples, like how the 20-80 can we see 25 or
5	school effect in the model.	5	35 percent school effect and the 65? Give us
6	MR. TOMEI: Why don't we vote on that since	6	I've really got to see how that data work. So
7	we never made that official, right? Or do we	7	one for me would be 25 or 30 school effect and
8	have to?	8	65 or 70 teacher effect. That's one piece I
9	MR. FOERSTER: Did we? Actually, it's	9	would like for you, if you don't mind, sir, to
10	implicit. We chose 3C and 3C has school effect.	10	look at. We can vote or whatever, but I think
11	So what's at issue is the apportionment and Ms.	11	that's a good way of placing; it's definitely
12	Hebda has indicated that it would be advisable	12	not 50-50.
13	that we get that done today. I'm not sure that	13	MR. FOERSTER: Sandi, do you have a
14	we're going to see any data that really is going	14	question?
15	to inform the discussion any more than it	15	MS. ACOSTA: I have a question.
16	already has been. So I'm looking for direction.	16	DR. DORAN: Can I ask you a quick question,
17	Does somebody want to throw a number out	17	Sandi, just so that we can think about this.
18	there and we put it to a vote? Do we want more	18	We'll do whatever you want. What is the
19	discussion? Are we not ready to take action on	19	question that we want answered?
20	this item at this point? Where are we?	20	MS. GINN: Well, for me I definitely think
20	MS. FEILD: I'd like to ask if the analysis	20	that a school effect but I'm going to tell
21	that Harold just commented on, you didn't run	22	you what, when I was interning in '72, my
22	that for senior high, did you?	22	supervisor teacher told me I can take a stick
23 24	DR. DORAN: Just grade 7 math and reading.	23 24	and a little bit of dirt and go outside and
24 25	DR. COHEN: So, Harold, one more time. How		teach. And that's how she trained me. So my
20		25	
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	62		64
1	point is this: It is a school effect, but once	1	teachers based either on what we think is
2	that door closes it's me and those kids and I	2	actually happening or what we think would happen
3	don't want that school effect so high because	3	in an ideal setting where the teachers are truly
4	it's just not true. We've got - you know, I'm a	4	powerful in helping the school move forward.
5	teacher and a child advocate.	5	MS. ACOSTA: That's 20 and 80, 20 school
_		_	
6	MS. NOYA: There you go. The numbers are	6	effect and 80% teacher effect.
7	not	7	MR. LeTELLIER: If this model doesn't work,
8	DR. COHEN: Doretha?	8	et cetera, we can adjust that and say, hey, we
9	MS. EDGECOMB: I think the question you	9	were off by how much that really was. So what I
10	would answer for me is that we are making a	10	would propose is to put a couple of numbers out
11	decision on some data rather than just on some	11	there and see if we have some comfortability
12	numbers arbitrarily. I mean, if you because	12	(sic) with it, like a 90/10, and 80/20. I think
		13	• •
13	I think somebody's going to ask the question,	_	most of the group from what I'm hearing is not
14	how did you make that decision about what	14	wanting the school effect to be too high, and so
15	attributions were made? And I don't want to	15	we need to err on the opposite side, it's pretty
16	say, oh, we just threw out some numbers and they	16	obvious, so that we just figure out how far to
17	sounded good to us. I would rather say we have	17	that side we go.
18	some data to support our decision, you know;	18	DR. COHEN: Ma'am, Nicole?
19	this is why we're assigning those numbers.	19	MS. MARSALA: Just in the opposite a little
20	That's why it's important to me.	20	bit, one of the ways that I'm looking at this is
21	MR. TOMEI: The way the test data are	21	in looking at the teacher effect there's more
	-	22	-
22	designed, you can run those in every 10%		teachers in that school affecting that student
23	increment and aren't you going to see a	23	than just the one who's being judged as language
24	relatively linear association with the	24	arts and math. As a social studies teacher, I
25	correlation between the teacher only and	25	cover reading and that should be included in the
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	63		65
1	MS. BROWN: Absolutely.	1	school effect because my teacher effect isn't
	•	1	
2	PANEL MEMBERS: (Over-speaking.)	2	affected. So part of the school effect is still
2 3	PANEL MEMBERS: (Over-speaking.) MR. FOERSTER: No, it will go down.	2 3	affected. So part of the school effect is still the other teachers. I mean, it's not just these
2 3 4	PANEL MEMBERS: (Over-speaking.) MR. FOERSTER: No, it will go down. DR. DORAN: So as we apportion that	2 3 4	affected. So part of the school effect is still the other teachers. I mean, it's not just these over-arching factors that we keep going back to.
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1	data-driven opportunity here. It's	1	effect is to a teacher-only model, that
2	philosophical. We're going to pick a number and	2	correlation gets weaker. You would expect that
3	we're going to live with it and we can change it	3	to be the case because you're driving further
4	later. Sandi?	4	away from it, and all his calculations
5	MS. ACOSTA: I just want to add one more	5	illustrate is that's true.
6	thing about that to make sure we're all on the	6	MS. ACOSTA: Right, so in a case like that
7	same page. When we talk about the co-efficient,	7	we're not necessarily looking for some
		-	. –
8	we're only talking about the portion that is	8	correlation.
9	attributable to the difference between the state	9	MS. FEILD: I guess I'm just concerned
10	average and the school average, not the rest of	10	because it's 7th grade and I wonder if that same
11	it, because I think sometimes when we start	11	analysis holds true for senior high?
12	looking people are thinking, oh, I made this	12	DR. COHEN: Yes, actually that same pattern
13	huge gain and you're going to take away 50% of	13	has to hold true for everything.
14	it. We're only talking about the portion of	14	The statistical model assumes when it's
15	that gain that is attributable to the school.	15	estimating the common component and the teacher
16	MR. FOERSTER: Absolutely, yes, ma'am.	16	unique component that they're independent. When
17	How about somebody throw me a motion about	17	you add basically, it's like adding random
	•		
18	what that co-efficient should be and we can put	18	noise, adding an independent variable to it.
19	it to a vote?	19	MR. TOMEI: If you think about things in a
20	MR. LeTELLIER: I move for 80/20.	20	school that are truly independent of the
21	MR. FOERSTER: Okay, 80/20 what 80%	21	teachers, if you believe school leaders make an
22	weighted for school effect?	22	impact, then that's a piece of the school effect
23	MR. LeTELLIER: Oh, 80% for teacher, 20%	23	that shouldn't be attributed to teachers which
24	school.	24	is one of the arguments, that there's some
25	MR. FOERSTER: So you want the co-efficient	25	school effect that's independent. On the other
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	850.421.0058		850.421.0058
	67		69
1	on school effect to be 0.2, a relatively small	1	hand, if you believe that the essence of what
2	weighting of school effect?	2	happened in schools really is in large part of
2 3	weighting of school effect? MR. LeTELLIER: Yes.	2 3	happened in schools really is in large part of control of the teachers both depending on what
2 3 4	weighting of school effect? MR. LeTELLIER: Yes. MS. ACOSTA: I think that's too low.	2	happened in schools really is in large part of control of the teachers both depending on what they do in their individual classes, which is a
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2 3 4 5 6 7	weighting of school effect? MR. LeTELLIER: Yes. MS. ACOSTA: I think that's too low. MR. FOERSTER: Do I have a second? Dies for lack of a second. Let's throw another number out there.	2 3 4 5 6 7	happened in schools really is in large part of control of the teachers both depending on what they do in their individual classes, which is a teacher effect, and how they work together as a collaborative learning community, which is how they influence the school effect, they have an ownership or part of that. Then again the
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	70	1	70
	70		72
1	where the somewhere is.	1	apportion the school effect as 25% to the
2	But I'm more comfortable with Jon's basic	2	school, 75% to the teacher, which is what I
3	belief about what this apportionment should look	3	think I just heard, then every teacher gets 75%
4	like; I favor that over a 50/50 just because	4	of the growth attributable to the school effect
5	it's my personal philosophy about how schools	5	and 100% of their teacher effect growth. I see
6	work or how they can work if a great learning	6	heads shaking.
7	community is established in a school.	7	PANEL MEMBERS: (Over-speaking.)
8	MS. STEWART: But, Lance, it's not enough	8	DR. COHEN: All right. Let me just ask
9	to second the motion.	9	this because it's clear the committee is saying
10	MR. TOMEI: I'm not saying that 80 is the	10	things and not always meaning the same things
11	right number, but I do think it's something more	11	when they say it.
12	than 50 in my mind. Again, it's such an	12	Do you believe that whatever is common in
13	arbitrary decision here	13	school, that common component, raise your hand
14	MS. STEWART: No, I agree.	14	if you think it's mostly attributable to
15	MS. EDGECOMB: I want go with 75/25.	15	teachers?
16	MR. FOERSTER: So, 75/25, to be clear we're	16	All right. Then you want to say that you
17	saying that of the school effect we're only	17	want to add 75% of the school effect back into
18	taking 25% of it into account because we believe	18	the teacher effect. So it will be your teacher
19	that the other 75% is teacher. So we're talking	19	effect in this model will have a mean within the
20	about a co-efficient on the school effect of	20	school of zero, plus 75% of the school effect
21	0.25, and everybody clear about what that	21	which will be non-zero. So that Lance has it
22	implies philosophically?	22	right; you want to move it from the school
23	MS. MARSALA: We're talking only the single	23	effect to the teacher effect.
24	teacher in their classroom who's being held	24	MS. MARSALA: He was subtracting. Lance
25	accountable, not all the other teachers who are	25	was subtracting that's why he was starting from
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	71		73
1	also working toward that common goal, and that's	1	zero.
2	also working toward that common goal, and that's the big thing we keep losing when we say	2	zero. MR. TOMEI: Right.
2 3	also working toward that common goal, and that's the big thing we keep losing when we say teacher. Not all the teachers who are working	2 3	zero. MR. TOMEI: Right. MS. MARSALA: Right. I was following you
2 3 4	also working toward that common goal, and that's the big thing we keep losing when we say teacher. Not all the teachers who are working with that student, it's just the one in that one	2 3 4	zero. MR. TOMEI: Right. MS. MARSALA: Right. I was following you but he's doing it he's going to be doing the
2 3 4 5	also working toward that common goal, and that's the big thing we keep losing when we say teacher. Not all the teachers who are working with that student, it's just the one in that one classroom in language arts and math for reading.	2 3 4 5	zero. MR. TOMEI: Right. MS. MARSALA: Right. I was following you but he's doing it he's going to be doing the opposite.
2 3 4 5 6	also working toward that common goal, and that's the big thing we keep losing when we say teacher. Not all the teachers who are working with that student, it's just the one in that one classroom in language arts and math for reading. MR. FOERSTER: That is one of the	2 3 4 5 6	zero. MR. TOMEI: Right. MS. MARSALA: Right. I was following you but he's doing it he's going to be doing the opposite. PANEL MEMBERS: (Over-speaking.)
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	74		76
1	hybridized universe we're between zero and one,	1	components, all right? The total growth effect,
	and the closer you are to universe one where	2	we'll call it growth associated with the teacher
2	it's individual teacher that co-efficient is	2	-
3		-	is equal to a common growth component, which is
4	closer to zero, and where you're closer to	4	common across all the teachers within the
5	universe two where you believe it's all going to	5	school, plus a unique growth component that is
6	the school, that co-efficient is closer to one.	6	for a given teacher. You the unique component
7	DR. COHEN: Just so we can get the message,	7	for teacher but then the school has a mean of
8	I used to know how to put the screen up. I want	8	zero, saying what Sam noted earlier when you
9	to write the formula up on the board so that	9	take the common component out and put the all
10	everybody can look at it and talk about the same	10	school with an equal average teacher. So this
11	thing. Do we just press the power button?	11	growth is decomposing to these two pieces, and
12	Okay.	12	this is the school average of just the raw
13	All right. These things are all going to	13	growth effectively and this is different from
14	benefit you. Now the school is two teachers.	14	the school average for a given teacher. So
15	MS. BOURN: Can we just do it in general	15	that's how you're decomposing the total growth.
16	terms? Are we really talking P sub-S where S is	16	MR. FOERSTER: As a point of clarification
17	the score? So teacher's score is equal to T	17	here, that number is actually calculated before
18	sub-E teacher effect minus S sub-E, which is the	18	you decompose it into these two constituent
19	school effect put an X in front of it for the	19	parts, you're looking at growth per kid. That
20	co-efficient, and then let's define X. Where X	20	is, you're looking at the residual, you've got
21	is going to be the apportionment of school	21	an expected for that child, you see where that
22	effect and then the philosophy is how is that	22	child actually scored, the difference is the
23	attributable to teacher versus school?	23	residual and you do that for all the kids in
24	DR. COHEN: Okay, now this is not exactly	24	that class, average them and that's the growth
25	the formula that would be used, and the numbers	25	of the teacher.
	American Court Reporting	_	American Court Reporting
	850.421.0058		850.421.0058
	75		77
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1	will come out ever so slightly differently when	1	DR. COHEN: That's what we say when we're
1	-	1 2	
	will come out ever so slightly differently when		DR. COHEN: That's what we say when we're
2	will come out ever so slightly differently when you estimate it.	2	DR. COHEN: That's what we say when we're speaking loosely; that's not really how the
2 3	will come out ever so slightly differently when you estimate it. MS. BOURN: But it's pretty close. Wouldn't it be	2 3	DR. COHEN: That's what we say when we're speaking loosely; that's not really how the model is estimated. It's all estimated
2 3 4	will come out ever so slightly differently when you estimate it. MS. BOURN: But it's pretty close. Wouldn't it be DR. COHEN: It's pretty close. As long as	2 3 4	DR. COHEN: That's what we say when we're speaking loosely; that's not really how the model is estimated. It's all estimated simultaneously. That's a good characteristic
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	78		80
1	predictive model or factored in, we take in	1	'effect' but what we mean by that is actual
2	prior year scale score or prior year scale score	2	growth as calculated by these residual
3	or all the other anyway, we get an estimate	3	individual kids, la-la-la, relative predictable
-		_	
4	of what that kid's expected growth is going to	4	upon actual growth generated by that teacher
5	be, and then we compare that to what the actual	5	minus
6	growth was. The difference is the residual and	6	MS. BOURN: So let's change the E to a G,
7	that is the residual for that student.	7	sub-G.
8	We look at all those residuals for all the	8	MR. FOERSTER: T sub-G. So T E would be T
9	kids associated with that teacher	9	sub-G. And that is student growth is what it
10	DR. COHEN: All right. Let's talk about	10	would be? Teacher
11	that. I like that.	11	MS. BOURN: It's the student growth
12	MR. FOERSTER: Right. Average them and	12	attributable to that teacher purely.
13	there's your teacher effect. No, no, no.	13	MR. FOERSTER: Right, it's the teacher
14	There's actual growth, actual growth.	14	growth statistic that is calculated by looking
15	DR. COHEN: So then for a given teacher	15	at all the individual kids minus the school
16	we've got our residual, right, for a given	16	effect.
17	teacher it's equal to the mean residual within	17	MS. BOURN: But I think what we're
18	the school plus the teacher's deviation from	18	struggling with is understanding how that school
19	that, right? This is the average residual among	19	effect is apportioned to teacher versus school.
20	the student teachers. This is going to have a	20	MR. FOERSTER: Right, and this is where I'm
21	mean I just subtracted the mean within the	21	going to how do you talk about apportionment in
22	school level and I think what you're talking	22	a meaningful way?
23	about is saying that the teacher growth measure,	23	DR. DORAN: I would go about this a little
24	the teacher effectiveness measure, is going to	24	differently. Suppose this is all helpful,
25	equal 0.75 x that mean plus the individual	25	but I was thinking about this and maybe it's
	American Court Reporting 850.421.0058		American Court Reporting 850.421.0058
	79		81
	19		01
4		4	just maybe we're saying the same thing but
1	teacher deviation.	1	just maybe we're saying the same thing but
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2 3	teacher deviation. MR. FOERSTER: Where did 0.75 come from? DR. COHEN: We're talking about whatever X	2 3	I'm just taking this differently. We have when we estimate a school effect and a teacher effect
2 3 4	teacher deviation. MR. FOERSTER: Where did 0.75 come from? DR. COHEN: We're talking about whatever X is. How much of a school mean do you want to	2 3 4	I'm just taking this differently. We have when we estimate a school effect and a teacher effect two independent things. The teacher effect and
2 3 4 5	teacher deviation.MR. FOERSTER: Where did 0.75 come from?DR. COHEN: We're talking about whatever Xis. How much of a school mean do you want to attribute to an individual teacher?	2 3 4 5	I'm just taking this differently. We have when we estimate a school effect and a teacher effect two independent things. The teacher effect and we have a school effect, and what I was thinking
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	82		84
1	to the teacher, okay? We start with that. I	1	constitute of versus just coming to the
2	think that's what you're talking about and then	2	agreement that 75% of it is the teacher effect,
3	we if we estimate with Model 3 where we've	3	25% of it is the school effect, and now that we
4	got school effects, also, then our teacher	4	know that let's define what the school effect
5	effect becomes T1 minus S, which is the school	5	is.
6	effect, and we get a school effect, right? So	6	DR. COHEN: I think we've drifted from
7	now T1, your model where you attribute	7	where we started because I don't think what you
8	everything to the teacher, is equal to T1 minus	8	were talking about before was decreasing this at
9	S plus S, so we can go we can get back from	9	all. This is the unique thing about the
10	Model 3 back to Model 1 using this formula,	10	teacher. I think you want 100% of that in there
11	right?	11	and only a portion of the common component
12	MS. BOURN: T1 is teacher	12	included in that.
13	DR. COHEN: Well, it's when you get out of	13	MS. BROWN: That's what I'm trying to say.
14	Model 1 where you don't estimate. It's not as	14	The formula at the bottom, I think, so please,
15	exact as this one is, but it's blah-blah-blah,	15	people help me, I think what happens if you look
16	yes.	16	at it that simplistically is you forget the
17	MR. FOERSTER: Right, Model 1 teacher	17	double impact of the teacher because the
18	score, value-added score, is approximately equal	18	teacher's effect is all about the teacher and
19	to actual growth. What I mean by growth is	19	their students. The school effect includes that
20	average of the residuals.	20	same teacher. So that's why we have to be
21	DR. COHEN: Yeah, it's growth above or	21	thinking about it's all the teacher, 100 percent
22	below So we can get back to that here. We	22	of the teacher effect, and then there's some
23	can doing this, turn Model 3 back into the	23	apportionment of the school effect that gets
24	teacher estimate for Model 1, right? But we	24	applied back to the teacher in some way.
25	don't want to do that. We don't want to do this	25	MS. FEILD: What if you changed that right
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	83		85
1	because every school has a mean teacher effect	1	underneath the 75 a new formula that says T/
2	of zero. You don't want to get rid of that,	2	which is the whole teacher effect, plus and then
3	right? So what we want to do is we want to say	3	a parentheses, and it can be either plus or
4	X x we want to put some proportion of the	4	minus, whatever it happens to be, X times the
5	school effect back in and we'll say sub-X. So	5	school effect. So if a teacher had 100 average
6	we're going to move in the direction of let	6	on her whatever, teacher effect, she keeps her
7	me get rid of the subscripts.	7	100. Now you're going to either add or subtract
8	MS. BOURN: Yeah, the subscripts are fine.	8	the school effect from her overall number. If
9	MR. FOERSTER: When you simplify that	9	the school had a negative 25, you take a quarter
10	expression, you're back to T1 minus X minus 1 X	10	of that negative 25 and you subtract that amount
11	S.	11	from the 100. If the school had a positive 25,
12	DR. COHEN: That's right. It's not	12	you get a quarter of that and you add that to
13	estimated that way and it's a little bit	13	her 100.
14	MR. LeTELLIER: Can I ask something? Is	14	DR. COHEN: That's exactly right. The one
15	this basically two different equations? Can we	15	clarifying point is when you do that, we're
16	get to the one can we make it that way, I	16	starting with teacher effects that have a mean
17	think we were originally talking about which is	17	of zero within the schools, right? So the
18	the effect, the growth equals teacher effect	18	average teacher effect estimate is going to be
19	plus school effect, whatever those two are.	19	zero within the schools, and that's the main
20	Then the school effect, we're determining what	20	impetus for adding back part of the common
21	amounts are from the combination. So this is	21	component.
22	just a suggestion. Can we first just deal with	22	MS. BROWN: You just totally lost me. I'm
23	the first part of it because I think that's	23	thinking about how we're going to explain it to
24	where we're getting lost. We're getting stuck	24	a teacher.
25	in what is the school effect, what's it American Court Reporting	25	MR. FOERSTER: I promise, really, it's just American Court Reporting
	850.421.0058	1	850.421.0058
	000.421.0000		000.421.0000

	86	1	88
1	the teacher value added score is equal to the	1	oo So I want to be really clear. We're not
2	actual growth as calculated as the average of	2	talking about changing how much of the teacher
3	the residuals minus some proportion of the	2	effect is taken into account in the value-added
_	school effect.	-	
4		4	score. All of the teacher effect will always be
5	MS. BOURN: Which is why in the beginning	5	taken into account in the value-added score.
6	that X, we're talking about making the X the	6	The question is what do we add or subtract from
7	co-efficient 0.25.	7	that teacher effect based on what we know about
8	MR. FOERSTER: Absolutely.	8	the school. Rather than get caught up in the
9	MS. BOURN: Mine is my growth adjusted for	9	addition or subtraction and whether it should be
10	25% of my school. Ta-Da.	10	a positive or negative term, I'm going to
11	DR. DORAN: Just to add to that I have to	11	describe it to you like this.
12	say one thing. Actually, what you said is	12	We're picking a number between zero and
13	heuristically correct but not mathematically	13	one. If you pick the number one, that means
14	100% accurate.	14	that you believe the school effect is really,
15	MR. FOERSTER: Is it close?	15	really important and should be factored fully
16	DR. DORAN: It's close enough, but let's	16	into the calculation. All of those things that
17	jus make sure that there's clarifying statement	17	are beyond the teacher's control are
18	that there's actually another component that's	18	fundamentally important and should count
19	used.	19	completely. If you pick a number that's closer
20	MR. FOERSTER: If it's close and everybody	20	to zero, you're saying, yes, I agree there's a
21	gets it conceptually, I think that's folks,	21	school effect, yes, we should count it for
22	we've been at this for a while. Would you all	22	something, but I believe that lots of those
23	be okay with taking a break for 15 or 20	23	things about a school, lots of those things that
24	minutes? We'll come back and try to button this	24 25	make the school effect what it is, is
25	one up. American Court Reporting	25	attributable to the teacher ultimately. American Court Reporting
	850.421.0058		850.421.0058
	87		89
			00
1	-	1	Where we've not to end up is somewhere in
1	(Whereupon, a short break was had.)	1	Where we've got to end up is somewhere in between zero and one, and that decision is
2	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed,	2	between zero and one, and that decision is
2 3	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed, clear as a bell? Okay. After a good bit of	2 3	between zero and one, and that decision is philosophical in nature. If you want school
2 3 4	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed, clear as a bell? Okay. After a good bit of huddling up, I'm going to do my best to explain	2 3 4	between zero and one, and that decision is philosophical in nature. If you want school effect to weigh more heavily and be counted
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2 3 4 5 6	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed, clear as a bell? Okay. After a good bit of huddling up, I'm going to do my best to explain the decision at hand and we're going to try to get out of the fray of the math and put things	2 3 4 5 6	between zero and one, and that decision is philosophical in nature. If you want school effect to weigh more heavily and be counted fully with the full teacher effect, that co-efficient needs to be one. If you want it be
2 3 4 5 6 7	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed, clear as a bell? Okay. After a good bit of huddling up, I'm going to do my best to explain the decision at hand and we're going to try to get out of the fray of the math and put things in very clear terms as to what is being decided	2 3 4 5 6 7	between zero and one, and that decision is philosophical in nature. If you want school effect to weigh more heavily and be counted fully with the full teacher effect, that co-efficient needs to be one. If you want it be lightly weighted because you don't believe it's
2 3 4 5 6 7 8	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed, clear as a bell? Okay. After a good bit of huddling up, I'm going to do my best to explain the decision at hand and we're going to try to get out of the fray of the math and put things in very clear terms as to what is being decided upon, and then I hope we're going to pick a	2 3 4 5 6 7 8	between zero and one, and that decision is philosophical in nature. If you want school effect to weigh more heavily and be counted fully with the full teacher effect, that co-efficient needs to be one. If you want it be lightly weighted because you don't believe it's as important or you believe that lots of what
2 3 4 5 6 7 8 9	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed, clear as a bell? Okay. After a good bit of huddling up, I'm going to do my best to explain the decision at hand and we're going to try to get out of the fray of the math and put things in very clear terms as to what is being decided upon, and then I hope we're going to pick a number because we've already all agreed that	2 3 4 5 6 7	between zero and one, and that decision is philosophical in nature. If you want school effect to weigh more heavily and be counted fully with the full teacher effect, that co-efficient needs to be one. If you want it be lightly weighted because you don't believe it's
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2 3 4 5 6 7 8 9 10 11	(Whereupon, a short break was had.) MR. FOERSTER: Everybody feel refreshed, clear as a bell? Okay. After a good bit of huddling up, I'm going to do my best to explain the decision at hand and we're going to try to get out of the fray of the math and put things in very clear terms as to what is being decided upon, and then I hope we're going to pick a number because we've already all agreed that this is a philosophical discussion, not one	2 3 4 5 6 7 8 9 10 11	between zero and one, and that decision is philosophical in nature. If you want school effect to weigh more heavily and be counted fully with the full teacher effect, that co-efficient needs to be one. If you want it be lightly weighted because you don't believe it's as important or you believe that lots of what makes a school a school is the teacher, it's got to be closer to zero. Everybody clear on what we're deciding?
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	••	1	
	90		92
1	count any of it. Pick a number and let's see if	1	'A' schools, but we have schools that are
2	we can get a vote.	2	struggling. I just want to say in Madison
3	MS. BOURN: Is there not a motion on the	3	County if you're a middle school teacher you
4	floor?	4	have one choice of where you teach and the
5	MR. FOERSTER: Is there a motion on the	5	school effect is huge. The instructional
6	floor.	6	leadership, the parental involvement even
7	MS. BOURN: It was 25/75.	7	though we can't consider poverty, the challenges
8	MR. FOERSTER: Did that get moved?	8	that these children are facing in their homes
	MS. NOYA: No.	-	
9		9	every night, the lack of homework. The school
10	MS. BOURN: Yeah.	10	contribution, the school culture contributes to
11	MS. NOYA: It did not get moved.	11	it enormously and we have some of the best
12	PANEL MEMBER: It was not seconded.	12	teachers I've ever seen at that middle school
13	MR. FOERSTER: Okay. We are all about	13	and it still struggles.
14	Robert's Rules here. So was the motion that the	14	We have one high school. If you're a high
15	school effect be weighted at 75% or the school	15	school teacher, you can't say I'm a great
16	effect term be weighted at 25%?	16	teacher, I want to go to a great school; you are
17	PANEL MEMBERS: Twenty-five.	17	there and you are stuck with those school
18	MR. FOERSTER: Okay. So the motion at hand	18	effects and you're dealing with those school
19	was that the school effect term should be	19	effects. You're not going anywhere else; it's
20	weighted at 25% in calculating the value-added	20	Madison County. You're not even driving to
21	score.	21	another county with gas prices at five dollars a
			gallon.
22	MR. LeTELLIER: Sam, wait before we do that because we could all vote for that and that	22	-
23		23	If you're an elementary school, we have
24	would be it.	24	three county schools I mean three community
25	MR. FOERSTER: And that's a bad thing?	25	schools, and you're teaching in those
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	91		93
	-		
1	MR. LeTELLIER: Yes, because we could take	1	communities, and when those jobs are filled up
1 2	-	1 2	
	MR. LeTELLIER: Yes, because we could take		communities, and when those jobs are filled up
2	MR. LeTELLIER: Yes, because we could take five minutes to make it look in my mind a	2	communities, and when those jobs are filled up you're going to the county elementary school.
2 3	MR. LeTELLIER: Yes, because we could take five minutes to make it look in my mind a little easier to make a vote. Can we just take	2 3	communities, and when those jobs are filled up you're going to the county elementary school. In that county elementary school, there are
2 3 4	MR. LeTELLIER: Yes, because we could take five minutes to make it look in my mind a little easier to make a vote. Can we just take and put up some hypothetical numbers on the	2 3 4	communities, and when those jobs are filled up you're going to the county elementary school. In that county elementary school, there are definitely some challenges. So for me, I can't vote for anything that doesn't get us as close
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	94		96
1	MS. KEARSCHNER: Does everybody understand	1	working, there's going to be some negative pull
2	that what we're talking about is what percentage	2	on them, correct?
3	of the teacher effect will be included? We're	3	MR. FOERSTER: I want to be clear about one
4	not taking away from	4	thing and that is that you've got to remember
5	MR. FOERSTER: School effect, what	5	any time that you build a control into a model,
6	percentage of the school effect.	6	it's not going to always be helpful or always be
7	MS. KEARSCHNER: Excuse me. School effect.	7	hurtful. It's going to be helpful and hurtful
8	What percentage of the school effect will be	8	in equal proportions, so I go back to the
9	included? We're not taking away the teacher	9	philosophy part of it. You know, rather than
10	effect. We're talking about how much of this	10	contemplating whether it's going to be hurtful
11	school effect, whatever this number is, is going	11	or helpful to particular teachers or particular
12	to be included, okay. It's not how much is	12	scenarios, I think we've got to stick with how
13	attributed to the teacher and how much is	13	strongly do you believe that there's a school
14	attributed to the school and you add those two;	14	effect that is beyond the teacher's control?
15	we're deciding now what percentage of the school	15	The closer you are aligned to that, the closer
16	effect will be considered. Do you want to	16	the number needs to be to one. The further away
17	consider it all or just a small portion of it?	17	you are from that, the closer we need to be to
18	MR. FOERSTER: That is the point of	18	zero.
19	discussion and Stacey clearly makes a compelling	19	Lance?
20	argument for being closer to one.	20	MR. TOMEI: Yeah, I just want to again
21	MS. ACOSTA: I think this goes back to what	21	emphasize, I think if you say that you want that
22	I said earlier and I think this is Stacey's	22	number to be close to one, you're really making
23	point about, if we're going to err, err on the	23	two philosophical statements. You're making one
24	side or in favor of teachers at lower performing	24	statement that you believe that school effect is
25	schools, which may cut against the teacher	25	extremely important, and the other statement
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	95		97
	MD FOEDSTED. To be clear I'm going to		voulre making is that you don't think that
1	MR. FOERSTER: To be clear, I'm going to	1	you're making is that you don't think that
2	take Anna's point. Lower performing in this	2	teachers within that school have much influence
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	98	Γ	100
1	evaluation. So if we understand the model and	1	this question, that that other committee could
2	the biases that the model can create and	2	at least be part of how this issue gets
	understand that we can't totally eliminate	2	
3	•	-	communicated throughout the state.
4	those, but we can measure that, then the other	4	MS. HEBDA: Are you talking about the
5	60% of how we evaluate teachers can be designed	5	teacher preparation committee or are you talking
6	to counter-balance the disincentives create that	6	about the committee for teacher evaluation?
7	we want to prevent.	7	MR. TOMEI: The teacher leader preparation
8	So I think we have to get beyond the point	8	committee and its potential to at least help
9	where we think this model's got to do an	9	inform what's going on this regard.
10	absolutely flawless job to the extent that we're	10	MS. HEBDA: Thank you. There are a number
11	able to get it there, it never will. But there	11	of ad hoc committees. The other one that's
12	are ways within the overall teacher evaluation	12	probably closest to this is the teacher leader
13	system to handle that, to handle what can't be	13	preparation committee, but they'll be using the
14	handled perfectly by the model.	14	results of this model then to also see how that
15	MR. MOREHOUSE: But will this committee	15	would work in evaluating over time teacher
16	have the authority to handle that, or is there	16	preparation programs.
17	another committee that has the responsibility	17	Again, just like you're talking about this
18	for covering that other 60%?	18	being one factor of a teacher evaluation, that
19	MR. TOMEI: Well, I think a lot of this has	19	will be one factor in an overall evaluation of a
20	to be done at the district level, but the	20	teacher preparation program going forward or a
21	districts need to be aware of the model and how	21	leadership preparation program going forward.
22	the model functions and the strengths and	22	So this model is going to be interacting with
23	weaknesses so they can factor that in to how	23	lots of different things, not just teacher
24	they design their evaluation system. I think	24	evaluation and principal evaluation going
25	this will be an interim process over time and American Court Reporting	25	forward, that's correct. It works the same way American Court Reporting
	850.421.0058		850.421.0058
	99		101
1		1	one factor among others.
1	the whole process will get better. In terms of	1	one factor among others. MR. FOERSTER: Any additional discussion?
2	the whole process will get better. In terms of this apportionment argument, I think that	2	MR. FOERSTER: Any additional discussion?
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	102		104
1	a motion to consider a weighting of let's	1	MS. BROWN: That's what I was going to say
2	make it an even fraction, 0.33?	2	is that it's not a matter of we think the
3	MS. WOODHOUSE-YOUNG: I'm still a little	3	teacher means more than the school or that the
4	bit even though we may have a number for the	4	school means less than the teacher. The teacher
5	school effect. That number 25 is multiplied by	5	effect is the teacher effect is the teacher
	a negative number?	6	effect. It's not going to change, but then
6	MR. FOERSTER: We're going to stay out of	7	
7 8	the woods on the positive/negative.	8	we're saying should we add an adjustment in there because there's something about the school
9	MS. WOODHOUSE-YOUNG: Because it would	9	that's happening, and if so how much of what's
10	matter for the score.	9 10	happening at the school should be put in there?
11		11	
	MR. FOERSTER: Here's the thing. If the	12	MS. EDGECOMB: By the same token, should we subtract from it?
12	school effect is negative, the impact on the	12	
13	teacher will be positive because whatever that		MS. FEILD: But you can subtract and I
14	teacher has generated in terms of real growth is	14	think that's what we need to make sure we
15	that much more significant because they did it	15	understand. Okay. In the end if a teacher
16	in an environment where the average teacher	16	finishes with a teacher effect of X, that X can
17	effect or teacher value-added score is less than	17	be positively or negatively impacted by the
18	zero. Does that make sense?	18	school effect?
19	MS. WOODHOUSE-YOUNG: So, okay, teacher	19	MR. FOERSTER: That is absolutely right.
20	score 100. As Stacey was mentioning, she's at a	20	MS. FEILD: Okay. So if she gets her score
21	school where a school effect is negative. So if	21	report or whatever and she's got a number, that
22	that number I'm using is one times that negative	22	number can now be altered for her evaluation
23	number, that's going to adversely affect my	23	based on the school effect plus or minus.
24	score.	24	MR. FOERSTER: To be clear, I don't believe
25	MR. FOERSTER: The co-efficient is simply	25	she's going to get a score that is
	American Court Reporting		American Court Reporting
	850.421.0058 103		850.421.0058 105
	10.5		105
4		4	
1	going to determine how much of that number we	1	MS. FEILD: Well, we get it maybe to look
2	going to determine how much of that number we take into account. I asked not to get hung up	2	MS. FEILD: Well, we get it maybe to look at or whatever.
2 3	going to determine how much of that number we take into account. I asked not to get hung up on the positive or the negative. I will tell	2 3	MS. FEILD: Well, we get it maybe to look at or whatever. MR. FOERSTER: There's going to be a score
2 3 4	going to determine how much of that number we take into account. I asked not to get hung up on the positive or the negative. I will tell you that a negative score will actually have a	2 3 4	MS. FEILD: Well, we get it maybe to look at or whatever. MR. FOERSTER: There's going to be a score and as a consequence of this decision that
2 3 4 5	going to determine how much of that number we take into account. I asked not to get hung up on the positive or the negative. I will tell you that a negative score will actually have a positive a negative school effect score will	2 3 4 5	MS. FEILD: Well, we get it maybe to look at or whatever. MR. FOERSTER: There's going to be a score and as a consequence of this decision that school effect will have been added in at some
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	106		108
1	still be seen with a very positive evaluation.	1	model actually works and that our simplified
2	MS. ACOSTA: It's not all of it.	2	heuristic representation is imperfect
3	MR. FOERSTER: That's a great point. Okay.	3	DR. COHEN: I'm just trying to understand.
4	MR. LeTELLIER: So what are the pros and	4	DR. HOVANETZ: How I have it written and
5	cons because I know I was just looking, I was	5	the way it was introduced was the committee
6	towards the aspect of 20/80 if you remember.	6	recommends that 20% of the school effect be
7	MR. FOERSTER: Twenty percent school	7	added to the teacher effect to reduce the
8	effects or 80% school effects?	8	teacher value-added score.
9	MR. LeTELLIER: Yeah, 20% school effect,	9	MR. FOERSTER: Perfect.
10	then I didn't raise my hand for the 25 because I	10	MS. BROWN: Can we not say 'added', but can
11	got a little confused. That's closest to where	11	we say 'adjust'?
12	I originally was, so can we just literally for	12	MR. FOERSTER: Sure, yeah.
13	the benefit of the group write down some pros	13	MS. KEARSCHNER: Can I just make sure I
14	and cons of going one way or the other? Would	14	understand what we voted on? Are we also saying
15	that help or make things easier or harder?	15	80% of the school effect is now being ignored?
16	MR. FOERSTER: I will defer to the group.	16	MR. FOERSTER: Yes.
17	I think most of us are ready to put a number on	17	PANEL MEMBERS: Yes.
18	this and go on. Okay. So do I have a motion	18	DR. COHEN: Can you repeat that? I'm
19	for 0.33, a third of school effects are	19	sorry.
20	weighted?	20	MS. KEARSCHNER: Sure, 80% of the school
21	MR. LeTELLIER: I'll move for that.	21	effect is now being ignored.
22	PANEL MEMBER: I'll move that we make the	22	BOARD MEMBERS: (Over-speaking.)
23	school effect 20%.	23	MS. BROWN: As far as adjusting, the 80% is
24	MR. FOERSTER: Do I have a second?	24	not 20%.
25	MS. BROWN: Second.	25	MS. FEILD: Maybe a better way to state it
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	107		109
1	MR. FOERSTER: All those in favor, signify	1	on a positive side is that in addition to the
1 2	MR. FOERSTER: All those in favor, signify by raising your right hand? Going to be close.	1 2	on a positive side is that in addition to the teacher effect we've decided that the whole
	MR. FOERSTER: All those in favor, signify by raising your right hand? Going to be close. So how many members do we have? We were at		on a positive side is that in addition to the teacher effect we've decided that the whole school effect is going to contribute to her
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		-	
	110	1	112
1	MS. FRAKES: I'm very uncomfortable with	1	some factor here to the fact that there's
2	that decision.	2	something to be said about what school culture
3	MR. LeTELLIER: I think that's what I was	3	contributes, the leader, the way they hire
4	saying a little bit before, and I know I just	4	teachers, et cetera, and making it at 20% it's
5	voted for that which is I don't know that we're	5	basically saying we'll put some portion of that
6		6	back in to kind of level out what that school
7	MR. FOERSTER: John, that's not helpful.	7	effect was in everything there. So we're not
8	MR. LeTELLIER: It is helpful. I want to	8	ignoring the 80% because it's there, because
9	hear you have almost half the group that's	9	let's look at it this is kind of what's
10	not in agreement with that. I want to hear what	10	tripping me up. I'm looking at this way.
11	they're thinking.	11	What if I'm a school that's very low growth
12	MR. FOERSTER: Me, too. Linda, Lori?	12	and what if the reason for that low growth is
		12	-
13	MS. KEARSCHNER: Stacey gave an outlying		poor hiring practices by the principal because I
14	example. She's in a county with very few	14	want to take all those other potential factors
15	schools, okay. The same applies to a school	15	out. And what if there's nothing than less than
16	district like mine in Pinellas which is very	16	effective teachers teaching in that school
17	densely populated, a large number of schools, a	17	because there were poor hiring practices by the
18	large county. We have great variations in	18	principal? What if I get transferred into that
19	schools, huge differences. In all of those	19	school? I wasn't chosen by the principal, I
20	cases what's happening in the school as a whole	20	transferred in or got put there, whatever. So
21	is impacting student growth; and to ignore the	21	what if my teacher effect is here even though
22	school effect to me that vote just says you're	22	the average school effect and the teacher effect
23	ignoring 80% of the school effect in capping	23	is here because those so if more than 20% of
24	that score. You've ignored the learning	24	that school effect gets put back into my effect,
25	community as Lance described it. That	25	I now go to this because the whole overall
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	111		113
1	definitely impacts	1	school effect is getting more and more and more
1 2		1 2	-
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	114		116
1	Does that make sense?	1	all things considered. That is to say if you
2	MS. FEILD: Yeah, I think the idea of	2	look at the actual output of a teacher in terms
3	keeping the weight low is so that a teacher	3	of growth of kids as measured by residuals,
4	doesn't almost go from one category of effective	4	differences between actual outcomes and
5	or ineffective just because of the weight of the	5	expected, if you're taking that as the teacher
6	whole school.	6	effect that we're talking about and you factor
7	If you put too much weight, you could	7	in the school effect, a negative school effect
8	totally alter that teacher's performance, not	8	is subtracted off, which means that it is added
9	because of her but because of the other 20	9	to the value-added score and vice versa. If you
10	teachers. So the weight was so that it doesn't	10	have teachers in high growth schools, the
11	that it contributes apportion	11	expectations of those teachers will be higher.
12	MS. KEARSCHNER: To me you're looking at it	12	That is to say their actual results as measured
13	from the negative, like it's going to drag down	13	by averaging the residuals for all their kids,
14	the teacher effect	14	that number will have the school effect
15	MS. FEILD: No, it could be the opposite.	15	subtracted from it.
16	You could have a low performing teacher who gets	16	So if they're in a very high school, a high
17	bumped up because of the whole school.	17	performing school, let's say the school effect
18	MS. KEARSCHNER: But remove whether it's	18	is 20 and their actual output is 110, their
19	moving you up or down. I still go back to how	19	value added score will be 90. That's the impact
20	much of that is the school community impacting	20	on teachers. So it does set different
21	the outcome, and to me the philosophy is that	21	expectations. The more heavily you weight that
22	there is a lot more of that. It's not just	22	school effect the more true it will be that in
23	what's happening in a reading teacher's	23	high growth schools the expectations of those
24	classroom; it's what's happening in every single	24	teachers will be higher. In low growth schools,
25	class and how it all works together, controlling	25	those expectations in terms of actual student
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	115		117
1	behaviors in the school. Teachers contribute to	1	growth will be lower. That's how the school
2	behaviors in the school. Teachers contribute to that when they're walking down the hall. All of	2	growth will be lower. That's how the school effect is factored in. I just need to make that
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	118	1	120
1	MR. FOERSTER: Lori, I completely take your	1	The total teacher effect if you just
2	point. I'm going to go back to a clarification	2	analogous to the average residual
3	that Anna made at the beginning of this session	3	MR. FOERSTER: Can we not do this? I
4	which I think is really important. When you say	4	promise it's going to
5	where is it most important to attract teachers	5	DR. COHEN: Okay, okay.
6	to, when we start talking about growth schools	6	MR. FOERSTER: Teacher effect. Not
7	in many cases our high growth schools are our	7	value-added score, teacher effect as calculated
8	low achievement schools.	8	by looking at all the students associated with
9	PANEL MEMBER: That's right.	9	that teacher, looking at their actual
10	MR. FOERSTER: They are the quote,	10	performance relative to expected, given our
11	unattractive, campuses.	11	predictive model, looking at those residuals
12	PANEL MEMBER: That's where the greatest	12	adding them together. Okay? That's the teacher
13	growth is.	13	effect. That's what actually happened in the
14	MR. FOERSTER: Okay. I'm going to do	14	classroom. That term will always stand. We're
15	something really weird here. I appreciate your	15	not talking about how to modify that term.
16	all's patience, by the way, but I felt like the	16	There is also what we're calling the school
17	additional discussion was necessary. We've got	17	effect, which is for all the kids in that school
18	to own this when we get out of here.	18	we're going to look at how they did relative to
19	I will take a motion to rescind the	19	expected, and we're going to come up with an
20	previous motion and if there is a majority we	20	average. In schools that have lower than
21	will rescind that motion and we will start over	21	expected results on average, that number is
22	with coming up with the right number. If there	22	negative. The school effect is negative because
23	is not a second or a motion or a majority, we're	23	those students on average did worse than
24	leaving it at 20% and we'll move on.	24	expected relative to the state expectations.
25	Is there a motion to rescind the previous	25	High growth schools are going to have
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	110		101
	119		121
1	motion?	1	positive school effects because on average those
1		1 2	
	motion?		positive school effects because on average those
2	motion? PANEL MEMBER: So moved.	2	positive school effects because on average those kids grow more than what had been predicted by
2 3 4	motion? PANEL MEMBER: So moved. MR. FOERSTER: It's been moved. Do I have	2 3	positive school effects because on average those kids grow more than what had been predicted by the State predictive model. When we're taking
2 3	motion? PANEL MEMBER: So moved. MR. FOERSTER: It's been moved. Do I have a second?	2 3 4	positive school effects because on average those kids grow more than what had been predicted by the State predictive model. When we're taking school effects into account, we are subtracting them off the teacher effect. The net effect
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	122		124
1	to be subtracted off, but when you subtract a	1	searching for solutions and I'm hearing from
2	negative, it's a positive. It gets added. So	2	these teachers who are saying are you taking
3	what that means is that if you have a teacher	3	into consideration that our PTA never meets?
4	that generates a certain amount of growth in a	4	Are you taking into consideration that I can't
5	low growth school, they are going to deride	5	get these parents to come in and volunteer, or
6	benefit from having been in a low growth school.	6	we can't get people to mentor our youth. So are
7	Let's say the school effect is minus 10; that 10	7	there in those counties schools where they are
8	will be added on with the rationale being that	8	low performing but they are seeing growth? Yes,
9	whatever growth, absolute growth, teacher effect	9	they are, but do I think that's the majority in
10	growth, that that teacher generated it was	10	our rural counties? No, I don't, not at this
	harder to do in that school than it would have	11	
11			time.
12	been to do in a school that positive school	12	So will I know that it may hurt a school?
13	effects. Does that clear up how the school	13	It may; it's an unintended consequence, but I
14	effects work?	14	have to speak for the vast majority when we're
15	MS. BROWN: What I wrote was, "In a high	15	talking Taylor, Hamilton, Gadsden, Madison.
16	growth school with a positive school effect, the	16	MS. KEARSCHNER: And it's not just those
17	actual teacher effect is reduced by the school	17	rural districts
18	effect."	18	MS. FRAKES: I hate to send out this
19	MR. FOERSTER: To calculate the value-added	19	committee to send out and say
20	score. To be clear, the teacher effect stands	20	MS. KEARSCHNER: diverse schools and
21	whole.	21	everyone of large counties has failing schools.
22	MS. BROWN: I get that part. Then we said	22	So whether it's high performing or low
23	prior that typically our high growth schools are	23	performing; the school effect matters.
24	not always our highest performing schools. So	23	MS. FRAKES: I hate to send out the message
			•
25	typically, our high growth schools are those	25	that to our parents and PTA organizations that
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	123		125
1	schools as was mentioned by Stacey that have	1	I'm sorry, really with or without you teachers
1 2	schools as was mentioned by Stacey that have some of these other challenges that are in	1 2	I'm sorry, really with or without you teachers can overcome that 80% because I think that is a
	schools as was mentioned by Stacey that have some of these other challenges that are in place. So we're talking about the greater the		I'm sorry, really with or without you teachers can overcome that 80% because I think that is a very wrong impression to send. I need every
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2 3 4	schools as was mentioned by Stacey that have some of these other challenges that are in place. So we're talking about the greater the school effect, the more we're reducing that	2 3 4	I'm sorry, really with or without you teachers can overcome that 80% because I think that is a very wrong impression to send. I need every volunteer and every parent that comes in to that
2 3 4 5	schools as was mentioned by Stacey that have some of these other challenges that are in place. So we're talking about the greater the school effect, the more we're reducing that teacher's value-add score. MS. BOURN: Exactly.	2 3 4 5	I'm sorry, really with or without you teachers can overcome that 80% because I think that is a very wrong impression to send. I need every volunteer and every parent that comes in to that classroom. I need every community resource that
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	126		128
1	lot of stuff regarding important decisions and	1	as we did about which model we wanted, and this
2	you all have been thoughtful in pretty abstract	2	power point was generated well before those
3	stuff too.	3	decisions took place. They thought that the
4	Yesterday you remember we selected Model	4	information should be presented in the context
5	3C, "we" being you. You looked at the models,	5	of all these other models. That's why you see
6	you said, well, what's wrong with controlling	6	other models up there. What we're going to try
7	more things? When estimating the school effect,	7	to do I the next hour, and we have discussed
8	you have to figure out whether to put them back in. We'll do that. We have a lot of	8	this and we're thinking an hour is just about enough time just to go through quickly what are
9 10	covariates. Model 3C, the second to last one in	9 10	the implications of Model 3C? Because we have
11	the slides, was the one that you honed in on and	11	selected it, we do want the committee members to
12	made a tentative decision that that's the model	12	be familiar with what it implies in terms of,
13	we chose.	13	for example in this case, different expectations
14	We have a series of slides now that are	14	for ELL or different expectations for gifted
15	going to walk you through the impact of that	15	because attributes of this model are going to
16	decision. How does Model 3C look relative to	16	come into question.
17	some of the other models in terms of how it	17	That is, our stakeholders are going to have
18	plays out in the real world with the real world	18	questions of us as to why this model does what
19	data from the 2010 impact.	19	it does. We should be familiar, I think, with
20	We're going to look at two different kinds	20	how it behaves or what implies in terms of
21	of we're going to look at the impact in two	21	different student growth expectations. So we're
22	different ways. Question one: What does this	22	going to go through relatively quickly these
23	mean in terms of expectations for students? How	23	slides focusing really on Model 3C.
24	do the expectations for students vary? And	24	Your point is extremely well taken that its
25	number two, we'll look at teacher impact. What	25	comparison to other models isn't really the
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	127		129
1	characteristics of a teacher are associated with	1	point now. The idea is what does 3C mean? What
1 2	higher or lower value added scores.	1 2	have we bought with this car that we now own?
	higher or lower value added scores. We want to pose some for Model 3C and we		have we bought with this car that we now own? That having been said, I don't want this to
2	higher or lower value added scores. We want to pose some for Model 3C and we want to see how Model 3C compares with the other	2	have we bought with this car that we now own? That having been said, I don't want this to sound like the train has automatically and
2 3	higher or lower value added scores. We want to pose some for Model 3C and we want to see how Model 3C compares with the other models. All right. So we're going to start off	2 3	have we bought with this car that we now own? That having been said, I don't want this to sound like the train has automatically and completely left the station. If we see things
2 3 4 5 6	higher or lower value added scores. We want to pose some for Model 3C and we want to see how Model 3C compares with the other models. All right. So we're going to start off looking at expectations for students. We have a	2 3 4 5 6	have we bought with this car that we now own? That having been said, I don't want this to sound like the train has automatically and completely left the station. If we see things in this information that are problematic, we can
2 3 4 5 6 7	higher or lower value added scores. We want to pose some for Model 3C and we want to see how Model 3C compares with the other models. All right. So we're going to start off looking at expectations for students. We have a model that generates a unique expectation for	2 3 4 5	have we bought with this car that we now own? That having been said, I don't want this to sound like the train has automatically and completely left the station. If we see things in this information that are problematic, we can back up. I want you to know that, but I don't
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		1	
	130		132
1	we understood that keeping them in the model did	1	dwell on it. The next set we expected a good
2	have some policy implications that we need to be	2	value-added model would be associated with
3	aware of. I think we need to at least spend an	3	things that we would expect to be associated
4	appropriate amount of time talking through those	4	with more effective teaching and not associated
5	things before we conclude yes, in fact, we want	5	with other things. So we take another look at
6	them all in there.	6	some of these relationships.
7	If that's the conclusion that's great; I	7	The statistic we're presenting here is a
8	just think it needs to be well considered. We	8	correlation, a correlation co-efficient. Many
9	think that'll take about an hour. After that,	9	of you know what correlation co-efficients are
10	time permitting we will move on to a discussion	10	but just to make sure that everybody
11	about classification and how perhaps this	11	understands, it describes the correspondence
	· · ·	12	between two variables. If a correlation is
12	information might be used to classify teachers		
13	and what the classification error looks in Model	13	positive it means this thing goes up as the
14	3C. That's what this afternoon looks like.	14	other thing goes up; if it's negative this thing
15	Any questions about what the game plan is?	15	goes up as the other thing goes down. Very weak
16	Okay.	16	relationship. It would be anything 0.10 or less
17	DR. COHEN: Okay. So under all models,	17	is a weak relationship. You'll notice these
18	including Model 3C, you'll see higher	18	relationships between teacher experience and a
19	expectations.	19	value-added measure, so are teachers with more
20	Next slide here. And correspondingly you	20	experience getting higher value-added measures?
21	see lower expectations of growth for gifted	21	These are tiny, 0.01, so barely or not even
22	students. What you see in Florida and it may be	22	statistically significant, not noticeable.
23	a this character is the FCAT scale, what we	23	They're just very small which maybe is
24	see in Florida every time we do an analysis is	24	surprising, but we in our meeting last time
25	growth is highest at the lowest end of the scale	25	we noted that when you look at the teacher
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	131		133
	181		100
1	and lowest at the highest end of the scale. Do	1	experience data over time you see a lot of
1 2	-	1 2	
	and lowest at the highest end of the scale. Do		experience data over time you see a lot of
2	and lowest at the highest end of the scale. Do you remember that scatter plot with the more	2	experience data over time you see a lot of teachers whose experience doesn't change from
2 3	and lowest at the highest end of the scale. Do you remember that scatter plot with the more discordant at the lower end of the scale and the higher end of the scale. So you're expecting	2 3	experience data over time you see a lot of teachers whose experience doesn't change from year to year, which you know it does. They were
2 3 4	and lowest at the highest end of the scale. Do you remember that scatter plot with the more discordant at the lower end of the scale and the higher end of the scale. So you're expecting some growth in gifted kids on average, but it's	2 3 4	experience data over time you see a lot of teachers whose experience doesn't change from year to year, which you know it does. They were in the data last year and they should be one higher this year.
2 3 4 5	and lowest at the highest end of the scale. Do you remember that scatter plot with the more discordant at the lower end of the scale and the higher end of the scale. So you're expecting some growth in gifted kids on average, but it's substantially less than growth you expect for	2 3 4 5	experience data over time you see a lot of teachers whose experience doesn't change from year to year, which you know it does. They were in the data last year and they should be one higher this year. So you see that, so I expect that teacher
2 3 4 5 6	and lowest at the highest end of the scale. Do you remember that scatter plot with the more discordant at the lower end of the scale and the higher end of the scale. So you're expecting some growth in gifted kids on average, but it's substantially less than growth you expect for kids who are not identified as gifted.	2 3 4 5 6	experience data over time you see a lot of teachers whose experience doesn't change from year to year, which you know it does. They were in the data last year and they should be one higher this year. So you see that, so I expect that teacher experience that is not currently used for
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	10.1	1	100
	134		136
1	Model 3C is virtually uncorrelated with the	1	significantly larger correlations than what we
2	percentage of teachers teaching who have	2	have seen in some of the others, they're still
3	disabilities. So the value-added score doesn't	3	really, really small.
4	seem to be really related to that.	4	DR. COHEN: They're still pretty small.
5	All right. Now when we look at the	5	I'd characterize them as pretty small rather
6	expectations, the student expectations in the	6	than really, really small.
7	last series of graphs, we saw that there were	7	MR. FOERSTER: Fair enough.
8	higher expectations for students who were ELL	8	DR. COHEN: We see the opposite when we
9	students. So nonetheless despite the higher	9	look at average entering math scores. So it's a
10	expectation for those students in the data	10	little tricky because of the negative
11	historically teachers have been more likely to	11	correlation, so if your kids come in with higher
12	exceed those expectations. The higher the	12	scores you're slightly less likely to have a
13	proportion of ELL kids, your value-added scores	13	high value-added score. Your value-added score
14	tend to go up. Not strongly, but a bit, tend to	14	is slightly lower if you're teaching kids who
15	go up for teachers who are teaching a higher	15	come in with higher prior scores, which
16	proportion of ELL students. So now you're	16	corresponds with what we saw in the student
		17	expectations. We saw lower student expectations
17	setting higher expectations for ELL students,		
18	but the teachers are doing a little bit better	18	for the highest achieving students in the first
19	nonetheless, even though they're being compared	19	series of graphs and despite that the teachers
20	to a slightly higher expectation.	20	teaching them still seem to get slightly lower
21	MS. WESTPHAL: Is this still just looking	21	the teachers of the highest achieving
22	at 7th grade math or is this overall?	22	students still get slightly lower value-added
23	DR. COHEN: Seventh grade math and reading.	23	scores. So the remains the inference is the
24	MS. WESTPHAL: Okay, 7th grade.	24	model in Model 3C as well as the rest of them is
25	DR. COHEN: You see very similar patterns	25	going to result in, if everything stays exactly
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	135		107
			137
1	in all the grades. We looked at all this across	1	as it was last spring, it will result in
1 2	in all the grades. We looked at all this across all grades, but you don't want me to show you	1 2	as it was last spring, it will result in slightly higher value-added judgments for
	in all the grades. We looked at all this across all grades, but you don't want me to show you seven times as many as these graphs, do you? I		as it was last spring, it will result in
2	in all the grades. We looked at all this across all grades, but you don't want me to show you	2	as it was last spring, it will result in slightly higher value-added judgments for
2 3	in all the grades. We looked at all this across all grades, but you don't want me to show you seven times as many as these graphs, do you? I can talk faster. MR. FOERSTER: Jon, the correlation, is	2 3	as it was last spring, it will result in slightly higher value-added judgments for teachers teaching lower performing students.
2 3 4	in all the grades. We looked at all this across all grades, but you don't want me to show you seven times as many as these graphs, do you? I can talk faster.	2 3 4	as it was last spring, it will result in slightly higher value-added judgments for teachers teaching lower performing students. MS. BROWN: Isn't there something to be
2 3 4 5	in all the grades. We looked at all this across all grades, but you don't want me to show you seven times as many as these graphs, do you? I can talk faster. MR. FOERSTER: Jon, the correlation, is	2 3 4 5	as it was last spring, it will result in slightly higher value-added judgments for teachers teaching lower performing students. MS. BROWN: Isn't there something to be said about the measure itself and how I mean,
2 3 4 5 6	in all the grades. We looked at all this across all grades, but you don't want me to show you seven times as many as these graphs, do you? I can talk faster. MR. FOERSTER: Jon, the correlation, is that R or R-Squared? I'm assuming it has to be	2 3 4 5 6	as it was last spring, it will result in slightly higher value-added judgments for teachers teaching lower performing students. MS. BROWN: Isn't there something to be said about the measure itself and how I mean, when we started this we said the lower end of
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	138		140
1	yes, that's right.	1	necessarily what you would expect, certainly for
2	MR. TOMEI: It can't be as simple as	2	math and what you see is that teachers with a
3	recognizing measured growth is going to probably	3	bachelor's degree tend to get higher value-added
4	relate positively to opportunity for growth.	4	scores than teachers with master's or
5	DR. COHEN: That's some interpretation, so	5	doctorate's. The number with doctorate is much
6	that that's not saying there's no truncation	6	smaller, so I wouldn't put too much weight on
7	or no problem with the scale; it's just the	7	that. But I personally was surprised to see
8	world works that way and that's another	8	that you had
9	interpretation. I would suggest that over time	9	MS. STEWART: And those were any higher
10	as we think about refining this model we look at	10	degree, not necessarily subject specific.
11 12	ways for more fully accounting for ceiling and floor effects in the scale.	11 12	DR. COHEN: Not necessarily subject
12	MS. BOURN: And that's a question I had	12	specific. Any higher degree is what's reported in the warehouse data.
	yesterday and I didn't really vocalize; how much	13	You see Model 3C is the last one here. We
14 15	of the variance can be related to prior year	14	saw bigger effects for Model 4. We took it off
16	score?	16	of this graph just because you couldn't see the
17	DR. DORAN: I can tell you. I just looked	17	differences between these models when we did it.
18	at the correlations. The correlation between	18	But overall even where you see differences it's
19	the grade 7 reading, the correlation between the	19	a point or two, you know, a point or two in the
20	prior scores and the current scores is 0.8, and	20	average value-added score.
21	in the math the correlation between the prior	21	I don't know much what to make of this next
22	score and the current score is 0.82. That's	22	slide. Okay. Another thing we looked at, I
23	grade 7 reading and math. So what we do to	23	know that national board certification can be
24	determine if you remember yesterday, we	24	very expensive and can be controversial, but we
25	looked at those statistics called the R-Squared	25	did see that there was a that board certified
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	139		141
1	statistics, essentially what that means is that	1	teachers tended to get higher value-added scores
1 2	first year score or that one lag accounts for	1 2	and those who weren't tended to get lower, which
_	first year score or that one lag accounts for about 64% of the total variance in the overall		and those who weren't tended to get lower, which is supporting evidence saying that you're at
2	first year score or that one lag accounts for about 64% of the total variance in the overall model.	2	and those who weren't tended to get lower, which is supporting evidence saying that you're at least tapping into something that somebody else
2 3 4 5	first year score or that one lag accounts for about 64% of the total variance in the overall model. Now recall that those other covariates and	2 3	and those who weren't tended to get lower, which is supporting evidence saying that you're at least tapping into something that somebody else has agreed these are more effective teachers.
2 3 4 5 6	first year score or that one lag accounts for about 64% of the total variance in the overall model. Now recall that those other covariates and everything else, they were accounting for about	2 3 4 5 6	and those who weren't tended to get lower, which is supporting evidence saying that you're at least tapping into something that somebody else has agreed these are more effective teachers. This is some additional validity evidence.
2 3 4 5 6 7	first year score or that one lag accounts for about 64% of the total variance in the overall model. Now recall that those other covariates and everything else, they were accounting for about 68% of the total variance, so the regression	2 3 4 5 6 7	and those who weren't tended to get lower, which is supporting evidence saying that you're at least tapping into something that somebody else has agreed these are more effective teachers. This is some additional validity evidence. Okay. That's the impact data we have for
2 3 4 5 6 7 8	first year score or that one lag accounts for about 64% of the total variance in the overall model. Now recall that those other covariates and everything else, they were accounting for about 68% of the total variance, so the regression model itself. That means that the first year	2 3 4 5 6 7 8	and those who weren't tended to get lower, which is supporting evidence saying that you're at least tapping into something that somebody else has agreed these are more effective teachers. This is some additional validity evidence. Okay. That's the impact data we have for you. You see how it affects expectations for
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1	saying because I think once this has been done	1	DR. DORAN: All right. So if the variables
2	even when it goes back down to the	2	are included, any particular control variable,
3	fundamental training and the communication of	3	the committee doesn't necessarily determine what
4	this that putting it in terms of clarity so	4	the weights are. One of the slides that Jon
5	people can understand it so it's comprehensive,	5	showed yesterday were those numbers that show
6	that's going to be critical because I think we	6	the deviations, like a 0.16 for every additional
7	have an obligation as part of the decision	7	day that you're attending the school. Those
8	makers to be able to communicate this.	8	numbers are actually estimated from the data.
9	MS. LEMKE: My goal in this project is to	9	They're called (inaudible) effects, they're
10	be the communications	10	actually estimated from the data and those would
11	MS. EDGECOMB: Oh, so we leave it all up to	11	be the numbers that would be applied. So the
12	you, okay.	12	committee wouldn't have any role in deciding
13	DR. COHEN: Just send Harold home with each	13	what those numbers should be or how necessarily
14	and every one of you.	14	to apply them. The role of this group would be
15	MS. LEMKE: So the reason I'm here is to	15	on the determination of whether they should be
16	make sure that I hear all these discussions and	16	included or not and then whatever values are
17	our obligation to you as part of this contract	17	estimated when they are included would be
18	is to produce materials that are user friendly,	18	applied in setting the expectations.
19	that are for lay people that they will	19	MR. LeTELLIER: Okay. Thank you.
20	understand not only the work that the committee	20	MR. FOERSTER: So your job is to decide to
21	has done but what is the model that was selected	21	include or not include. How they get weighted
22	and, you know, sort of some of the implications	22	is up to the data set and how it all takes it.
23	of that model and so on and so forth. So we'll	23	MR. LeTELLIER: Good. That clarifies it.
24	be putting together materials both written and	24	MR. FOERSTER: Are we ready, Christy? Do
25	also some sort of multimedia presentation of	25	you want to go ahead and start the discussion
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	143		145
1	materials. That will be available for you.	1	with the
2	materials. That will be available for you. We'll also be doing some training so you	2	with the DR. HOVANETZ: Jon will present the actual
2 3	materials. That will be available for you. We'll also be doing some training so you may be seeing more of me. I'd like to use some	2 3	with the DR. HOVANETZ: Jon will present the actual variables and then we can have the discussion.
2 3 4	materials. That will be available for you. We'll also be doing some training so you may be seeing more of me. I'd like to use some of you as a sounding board for some of those	2 3 4	with the DR. HOVANETZ: Jon will present the actual variables and then we can have the discussion. MR. FOERSTER: Excellent. That
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	440	1	4.40
	146		
1	students and ELL students and the differential	1	That's a case where you may want to leave them
2	impact we have on growth expectations based on	2	in just for just because you can't come up
3	how we're putting a particular variables. So as	3	with a good substantive reason not to.
4	we're having a discussion about whether or not	4	So I guess have at it. Attendance is
5	the variables are significant, statistically	5	important. This is a 'T' statistic which is
6	significant, we also have to keep in mind does	6	basically Harold, help me out.
7	it make sense to include them from the policy	7	DR. DORAN: What is the 'T' statistic of?
8	perspective?	8	DR. COHEN: That is the minimum 'T' for
9	So Jon will present the information about	9	across all the grade levels, so where attendance
10	what is and is not statistically significant in	10	is least significant it is widely significant.
11	the model, but you all will have to go through	11	The odds of getting a 'T' value of 2.0 or bigger
12	and make the decisions about which ones make	12	is about 5%. The odds of getting a 'T value of
13	sense to include in the model, not just based on	13	1.0 or bigger is about, what, 0.001. Three or
14	results but also based on the policy perspective	14	bigger is 0.001. As you get out to 27, there is
15	that we've had at the April 4th and 5th meeting,	15	no way that's due to change, right?
16	the 14th, and then again today. So keep that in	16	DR. DORAN: Jon, the 'T' values of all the
17	mind as Jon is presenting the data.	17	grades, it was the smallest, so everything else
18	DR. DORAN: All right. So we're going to	18	would be bigger than that in all the other
19	go through classification for just a moment.	19	grades.
20	MR. FOERSTER: We're going to go to	20	DR. COHEN: Let me just make sure I did
21	variables and then come to classification.	21	that right.
22	DR. COHEN: I think we already talked about	22	MR. FOERSTER: It's all grades.
23	variables.	23	MS. BROWN: All grades.
24	Let's start. Column A and the next column	24	DR. COHEN: No, that's the maximum across
25	is Column T. There's a lot of hidden columns	25	all grades. I was looking for where it's never
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	147		149
		1	
1	That I can show you it you want to see. What's		
1	that I can show you if you want to see. What's		significant. That's the maximum across all grades
2	in between here is the progression co-efficient	2	grades.
2 3	in between here is the progression co-efficient and its standard error for every grade in math	2 3	grades. DR. DORAN: It could be smaller.
2 3 4	in between here is the progression co-efficient and its standard error for every grade in math for Model 3C. So it's all there, all the detail	2 3 4	grades. DR. DORAN: It could be smaller. DR. COHEN: It could be smaller. All
2 3 4 5	in between here is the progression co-efficient and its standard error for every grade in math for Model 3C. So it's all there, all the detail about what the actual co-efficients are.	2 3 4 5	grades. DR. DORAN: It could be smaller. DR. COHEN: It could be smaller. All right. If I were to recommend just a way to
2 3 4 5 6	in between here is the progression co-efficient and its standard error for every grade in math for Model 3C. So it's all there, all the detail about what the actual co-efficients are. What we've done here is we highlighted	2 3 4 5 6	grades. DR. DORAN: It could be smaller. DR. COHEN: It could be smaller. All right. If I were to recommend just a way to think about this, I would think about the
2 3 4 5 6 7	in between here is the progression co-efficient and its standard error for every grade in math for Model 3C. So it's all there, all the detail about what the actual co-efficients are. What we've done here is we highlighted things that were never statistically	2 3 4 5 6 7	grades. DR. DORAN: It could be smaller. DR. COHEN: It could be smaller. All right. If I were to recommend just a way to think about this, I would think about the student with disability category as a single
2 3 4 5 6 7 8	in between here is the progression co-efficient and its standard error for every grade in math for Model 3C. So it's all there, all the detail about what the actual co-efficients are. What we've done here is we highlighted things that were never statistically significant, not in any grade in math for Model	2 3 4 5 6 7 8	grades. DR. DORAN: It could be smaller. DR. COHEN: It could be smaller. All right. If I were to recommend just a way to think about this, I would think about the student with disability category as a single category rather than the many categories it is.
2 3 4 5 6 7 8 9	in between here is the progression co-efficient and its standard error for every grade in math for Model 3C. So it's all there, all the detail about what the actual co-efficients are. What we've done here is we highlighted things that were never statistically significant, not in any grade in math for Model 3C. Does that make sense? Everything else is	2 3 4 5 6 7 8 9	grades. DR. DORAN: It could be smaller. DR. COHEN: It could be smaller. All right. If I were to recommend just a way to think about this, I would think about the student with disability category as a single category rather than the many categories it is. I would think about the class size category as a
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-		1	
	150	1	152
1	do we want to keep in here and vote?	1	things, that can be mitigated by the other 50%
2	So I think Jon's suggestion was just to.	2	or if it's a new teacher or the other 60% of the
3	Take them in groups.	3	evaluation.
4	MS. BROWN: Then how do we read that to	4	MR. TOMEI: And the argument here again if
5	make that decision?	5	you think of all of these collectively not
6	MR. FOERSTER: Well, I think one way to	6	contributing more than about 4% of the total
7	read it is that anything that's highlighted is	7	variance in outcome, when you look at the data
8	not statistically significant in any great	8	globally but any one of these whether it's
9	amount, which is not anywhere. The maximum	9	statistically significant in the model at the
10	T-score for any grade is less than 2.0. So in	10	global level could be important to an individual
11	no circumstance was class 3 homogeneity, class 4	11	teacher and there's not a lot of cause to keep
12	and 5 size, those were never significant in any	12	this in, so first of all I want to thank Jon
13	circumstance. So if there is a statistical	13	because I suspect I got a lot more sleep last
14	argument to leave any of them out, it would	14	night than Jon did doing all of this for us last
15	apply to those five things in math. That's	15	night, but this is exactly what I wanted to see
16	exactly	16	to get a sense for how I think we ought to react
17	MR. TOMEI: This is really stuff that I	17	to all of these different potential covariates.
18	tried for yesterday to try to summarize all	18	My reaction is we ought to keep them all in.
19	these because we looked at one single grade	19	DR. DORAN: Just to make sure everybody's
20	where there were a number of additional	20	on the same page, if you do delete at all, you
21	variables at that grade level that showed up as	21	could leave "as is" or an additional step you
22	not significant. So my concern is can we see	22	could do is you could collapse categories. For
23	you know, are they significant at any grade	23	instance, you could make the SWD category just a
24	level in the two subjects that we looked at?	24	dichotomous variable where you're either, one,
25	MS. BOURN: So this shows us that in some	25	classified as SWD in any particular category, or
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	151		153
	151		155
1	grades somewhere it's statistically important.	1	never at all. So you could keep all and
1 2	-	1 2	
	grades somewhere it's statistically important. MR. TOMEI: Everything except homogeneity		never at all. So you could keep all and
2	grades somewhere it's statistically important.	2	never at all. So you could keep all and collapse or you could keep all as is, or you
2 3	grades somewhere it's statistically important. MR. TOMEI: Everything except homogeneity in class three and homogeneity and/or size for class 4 through 6, but even that's an arbitrary	2 3	never at all. So you could keep all and collapse or you could keep all as is, or you could go through this list and make decisions about which ones you want to keep or not. So
2 3 4	grades somewhere it's statistically important. MR. TOMEI: Everything except homogeneity in class three and homogeneity and/or size for class 4 through 6, but even that's an arbitrary break at that point because it does matter, the	2 3 4	never at all. So you could keep all and collapse or you could keep all as is, or you could go through this list and make decisions about which ones you want to keep or not. So essentially those are kind of the three pathways
2 3 4 5 6	grades somewhere it's statistically important. MR. TOMEI: Everything except homogeneity in class three and homogeneity and/or size for class 4 through 6, but even that's an arbitrary break at that point because it does matter, the second class and one of the characteristics of	2 3 4 5	never at all. So you could keep all and collapse or you could keep all as is, or you could go through this list and make decisions about which ones you want to keep or not. So essentially those are kind of the three pathways that you could go on.
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		1	
	154		156
1	into one versus keeping them all separate?	1	difference between some of these. SWD 12 3.4
2	DR. DORAN: Good question. If we were to	2	versus SWD 10 S20. So if we were to keep them
3	keep them "as is", the chart that Jon showed	3	all individually, how difficult is that to do as
4	yesterday, I've got these numbers	4	far as when you're tabulating stuff?
5	DR. COHEN: I can unwrap that and you can	5	DR. DORAN: Not at all.
6	see it.	6	MR. LeTELLIER: And is it more beneficial
7	DR. DORAN: If we keep each of these	7	to do that versus collapsing because what I'm
	•		
8	categories and I forget what SWD is and so	8	seeing is if we just generally say let's say
9	forth, all right, this number here these are	9	the number comes down to a 5 or a 6 and some SWD
10	the actual fixed effect estimates all right.	10	5 is 39, I don't know if that's a good thing to
11	Standard error and column okay.	11	collapse with them.
12	All right.	12	DR. DORAN: Well, what he's asking is a
13	DR. COHEN: Let me give you a visual cue	13	computational. Is that any harder for the
14	here. Okay. Those are your co-efficients.	14	models to be run and implemented when they are
15	DR. DORAN: What this is telling us here	15	all kept in versus if they're collapsed to zero?
16	when we leave this as is, a student can be in	16	It's virtually a simple thing to do, just bring
17	one of these categories. They may have had	17	more columns in the matrix and that's an easy
18	multiple categories, but let me keep the world	18	thing to do.
19	very simple. Let's assume that the world is SWD	19	MR. LeTELLIER: So that part is easy to do.
20	10 but nothing else, so when we form that	20	DR. DORAN: The policy issue or the
		20	
21	prediction for any kid who's SWD 10, the		implementation issue, you may want to keep it
22	difference in their prediction would be 20.73	22	for different reasons. Essentially, what you're
23	scaled score points versus any students who is	23	doing is if you collapse it into a single
24	not SWD 10, everything else being equal, every	24	category, you are ignoring the differences
25	other category being equal. So what we have is	25	between the categorization and some of that
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	155		157
1	the difference in the expectation for each of	1	granularity may be important.
1 2	the difference in the expectation for each of these SWD categories. So the student is SWD 10,	1 2	granularity may be important. MR. FOERSTER: To someone.
	•		
2	these SWD categories. So the student is SWD 10,	2	MR. FOERSTER: To someone. DR. DORAN: After looking at these numbers,
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	158	1	160
1	MS. BOURN: But do we understand that we're	1	assessments for our SWD kids, whatever that is.
2	saying that the expectation is higher for these	2	What we would be doing by accepting each of
3	students? And that when we control for this, if	3	these would be separate categories for both
4	you look at slide 58, it's not really, really,	4	policy and statistical reasons are that you're
5	really big, but there's a teeny bit of a	5	being true to that performance. That's the
6	consideration that when you control it for this	6	reason that I would vote to support.
7	that those teachers are slightly more likely to	7	MR. LeTELLIER: And those policy decisions,
8	have lower value added.	8	they change every year.
9	DR. DORAN: That's an important point.	9	DR. DORAN: They will change every time we
10	Let's go through and make sure we understand	10	run the model. But I want to emphasize what the
11	what the interpretation is and what Ronda's	11	two of you were saying. These co-efficients are
12	saying.	12	higher, Anna, like you were saying not because
13	When the numbers are positive, what that	13	they were arbitrarily assigned but given because
14	means is any kid who is an SWD of 10 has an	14	this is what was observed in the data.
15	increase in their expected second year score of	15	MS. WESTPHAL: For my understanding, this
16	whatever that number is if it's positive. If	16	is considering primary disability only. Is
17	it's negative then they have a lower expectation	17	there any way or should we consider if the
18	than a student who is not in that particular	18	two numbers are different, if one might be their
19	category. It does have a difference, then we	19	primary but the other is having a greater impact
20	make sure we understand what that in the	20	on the test score for example, language
21	quotation is saying.	21	impaired a lot of times goes along with another
22	MS. BROWN: I'll just remind you what	22	disability, so if the language is what's causing
23	flagged in my head and it might not be right.	23	the it's usually not the primary. Does that
24	But we are doing this with respect to a specific	24	make sense?
25	measurement instrument. That is an instrument	25	MS. KEARSCHNER: Language like we used the
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	159		161
		4	-
1	that has a specific floor issue. I'm not going		other day vectorday when we were talking about
1	that has a specific floor issue. I'm not going	1	other day, yesterday when we were talking about
2	to go on record to say that all SWD kids fall in	2	say you had a hearing impaired student and
2 3	to go on record to say that all SWD kids fall in that floor area. However, one of the other	2 3	say you had a hearing impaired student and they've got a secondary disability with the
2 3 4	to go on record to say that all SWD kids fall in that floor area. However, one of the other things that happened and a lot of teachers ask	2 3 4	say you had a hearing impaired student and they've got a secondary disability with the inability to communicate on the test, that
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	162		164
1	MS. BROWN: Yeah, they change.	1	20 to negative 20 or something like that.
2	DR. COHEN: It's not always a positive	2	MR. FOERSTER: If you all are comfortable
3	expectation; and while I find that difficult to	3	with the amount of discussion on this one, we
4	explain in some way I find comfort in what	4	could take a motion that we accept all of the
5	Anna's saying which is the data you know,	5	SWD covariates as they're presented for both
6	this was run on a model, this was what it was,	6	math and reading.
7	and we were consistent in respecting that	7	MR. TOMEI: So moved.
		-	MR. LeTELLIER: Second.
8	outgrowth.	8	
9	MS. BROWN: And we know it has an impact.	9	MR. FOERSTER: Any further discussion? All
10	Whatever that impact is, we know it has an	10	those in favor, indicate by raising your right
11	impact and therefore should be accountable.	11	hand. Okay.
12	DR. DORAN: One thing to make sure we	12	Next category is class size and homogeneity
13	properly interpret these data, we see if we look	13	and I think it's probably safe to take these
14	in isolation at this column here, the difference	14	together as a group. Any thoughts on removing
15	is 39 versus 2 for those if you contrast those	15	the ones that are statistically insignificant or
16	for those particular categories. We can think	16	including them all because it's easier to
17	about collapsing but you may or may not want to	17	explain?
18	do it. You might say, well, I want to see them	18	MS. BROWN: Devils advocate, there just so
19	separate because of the difference in this	19	insignificant, why bother to take them out.
20	expectations but don't look at that column in	20	DR. DORAN: Did you say why bother taking
21	isolation because remember a couple of things.	21	them out?
22	This is not the standard error. In this	22	MS. BROWN: Yeah, what's the reasoning to
		22	need to do it? To remove it?
23	particular grade, the difference is 4 versus	-	
24	nuts, I should go in reverse. But then these	24	DR. DORAN: Oh, to remove it? They're not
25	numbers will change; they change across grades,	25	adding anything at all in terms of
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	163		165
1	they change across years when the model is	1	MS. BROWN: But are they taking away?
1 2	they change across years when the model is re-estimated and they'll change across subjects.	1 2	MS. BROWN: But are they taking away? DR. DORAN: They're taking away model
	they change across years when the model is re-estimated and they'll change across subjects. So while these numbers can be helpful for		MS. BROWN: But are they taking away? DR. DORAN: They're taking away model parsimony and that is an important
2	they change across years when the model is re-estimated and they'll change across subjects.	2	MS. BROWN: But are they taking away? DR. DORAN: They're taking away model
2 3	they change across years when the model is re-estimated and they'll change across subjects. So while these numbers can be helpful for	2 3	MS. BROWN: But are they taking away? DR. DORAN: They're taking away model parsimony and that is an important
2 3 4	they change across years when the model is re-estimated and they'll change across subjects. So while these numbers can be helpful for you to think about this, keep those things in	2 3 4	MS. BROWN: But are they taking away? DR. DORAN: They're taking away model parsimony and that is an important MS. BROWN: Oh, I understand that.
2 3 4 5	they change across years when the model is re-estimated and they'll change across subjects. So while these numbers can be helpful for you to think about this, keep those things in mind. They change across grades, they change	2 3 4 5	MS. BROWN: But are they taking away? DR. DORAN: They're taking away model parsimony and that is an important MS. BROWN: Oh, I understand that. MR. FOERSTER: Could they potentially
2 3 4 5 6	they change across years when the model is re-estimated and they'll change across subjects. So while these numbers can be helpful for you to think about this, keep those things in mind. They change across grades, they change across subjects, and they will change each year	2 3 4 5 6	MS. BROWN: But are they taking away? DR. DORAN: They're taking away model parsimony and that is an important MS. BROWN: Oh, I understand that. MR. FOERSTER: Could they potentially introduce error in individual teacher
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2 3 4 5 6 7 8	they change across years when the model is re-estimated and they'll change across subjects. So while these numbers can be helpful for you to think about this, keep those things in mind. They change across grades, they change across subjects, and they will change each year as the model is re-estimated. So it's a useful heuristic. We need to look at these numbers, but don't assume that the gap will always be	2 3 4 5 6 7 8	MS. BROWN: But are they taking away? DR. DORAN: They're taking away model parsimony and that is an important MS. BROWN: Oh, I understand that. MR. FOERSTER: Could they potentially introduce error in individual teacher value-added scores by virtue of their being
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	166	1	168
1	because kids appear in multiple classes in the	1	in a class with 20 kids that would mean that the
2	data, right? So the class size variable is for	2	total impact on the value-added score is minus
3	each of the classes he would be associated with.	3	0.16 points; is that right?
_		-	• • •
4	The homogeneity is of the kids in the class,	4	DR. DORAN: For every increase in kid.
5	class one that they're assigned to, what's the	5	MR. FOERSTER: For every increase in kid.
6	difference between the 75th percentile and the	6	MS. BROWN: No, for each child.
7	25th percentile in that class one? Under class	7	MR. FOERSTER: Right, but my co-efficient
8	two there's a different homogeneity variable and	8	is 0.08.
9	so forth.	9	DR. DORAN: It's 0.001. So what that
10	MS. BOURN: And the class is for that	10	indicates, I mean, let's go over the
-			
11	subject.	11	interpretation of what that means. This class
12	DR. DORAN: And course, right, same course,	12	size is a continuous variable. It denotes the
13	different teacher.	13	number of kids within a class. So if you have
14	DR. COHEN: No, not necessarily. There's a	14	one kid within your class, the difference in the
15	difference between a course and a class. I	15	expectation would be that. For two kids, it
16	could tell Algebra 1 at this school, change	16	would be two times that. So it increases for
17	schools and be taking Algebra 1 at another	17	each additional kid in their class and that's
18	school. That would be two classes with the same		
_		18	how it changes the expectation, everything else
19	course, right? Or I could be taking Algebra 1	19	being equal.
20	and business math the same time, right, so	20	DR. HOVANETZ: The bigger the class size,
21	there's two courses, two different teachers, two	21	the lower the expectation.
22	different periods, so there are two different	22	MR. FOERSTER: The lower expectation, but
23	classes, right?	23	the thing I want to point out is the difference
24	So the class size has to do with the number	24	in class size of 10 kids, a difference in class
25	of other kids who are sitting in the same room	25	size. If you're comparing apples and apples,
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	167		169
1	with you at the same time. So whatever your	1	one class has 18 kids and one class has 28 kids.
1 2		1 2	
	with you at the same time. So whatever your		one class has 18 kids and one class has 28 kids.
2	with you at the same time. So whatever your first class is that has a size and it has a	2	one class has 18 kids and one class has 28 kids. DR. DORAN: It's less than one scale point
2 3 4	with you at the same time. So whatever your first class is that has a size and it has a homogeneity in it, a distribution of prior student performance within that class.	2 3	one class has 18 kids and one class has 28 kids. DR. DORAN: It's less than one scale point difference in expectation. You have to have a 100 kid difference before you got to an 8 scale
2 3 4 5	with you at the same time. So whatever your first class is that has a size and it has a homogeneity in it, a distribution of prior student performance within that class. MS. BOURN: So in this example, a student	2 3 4 5	one class has 18 kids and one class has 28 kids. DR. DORAN: It's less than one scale point difference in expectation. You have to have a 100 kid difference before you got to an 8 scale point difference.
2 3 4 5 6	with you at the same time. So whatever your first class is that has a size and it has a homogeneity in it, a distribution of prior student performance within that class. MS. BOURN: So in this example, a student is in class three included in that data set and	2 3 4 5 6	one class has 18 kids and one class has 28 kids. DR. DORAN: It's less than one scale point difference in expectation. You have to have a 100 kid difference before you got to an 8 scale point difference. MR. FOERSTER: And hypothetically how much
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	170		172
1	you have 77 comparisons. You'd expect 3 to 4	1	difference. And our current accountability
2	false positives. You'd expect just by chance	2	measure isn't measured in that. I say we remove
3	some things to be statistically significant	3	all class size and homogeneity.
4	three to four times. So if you're looking for	4	MR. MOREHOUSE: This is the concern that I
5	candidates to eliminate this size of homogeneity	5	have. When you read the literature on class
6	set of things would seem to be decent	6	size, literature identifies optimum class size.
7	candidates.	7	The question I have is we don't know what the
8	MR. MOREHOUSE: Do you know what their	8	average class size is in this data set. Was
9	average class size was in that data set?	9	that average class size optimum? If it is in
10	DR. COHEN: I don't know that offhand.	10	fact optimum, they will expect very little
11	MR. LeTELLIER: The one pro for keeping	11	variation and this outcome will suggest that. I
12	class size that I can see is the fact that out	12	don't know what those numbers are.
13	of the different variables that teachers have	13	MS. HALL: The majority of districts in
14	brought up that are important to them, that	14	Florida didn't make class size, so they are
15	would be something that I mean, I don't know	15	above. Only a handful made it.
16	how many teachers I've heard talking about class	16	MS. KEARSCHNER: If you're going to be
17	size, class size, class size; and if it's not	17	considering if you're framing this around a
18	going to negatively affect the outcome then is	18	controlled class size and applying it to reading
19	it politically not politically. Policy-wise,	19	and math overall, you need to keep in mind that
20	is it better to keep it in from the aspect of	20	this year in the legislature, they're
21	people saying oh, wow, they're taking	21	re-defining what classes, what math and reading
22	attendance, class size into account, et cetera,	22	classes would be labeled as core classes, and
23	when they're doing this.	22	it's only the core classes. So you could have a
	One of the things that I think is useful	23	Calculus 2 class, it's math, and it's not and
24	-	24 25	you could have 45 kids in that class because
25	coming forth from this discussion and model is	25	
	American Court Reporting 850.421.0058		American Court Reporting 850.421.0058
	171		173
	how toochors porceive the system to be how	4	it's no longer considered a sere class. That
1	how teachers perceive the system to be, how	1	it's no longer considered a core class. That
2	parents perceive it, how the general public	2	might not be an actual one off the list, but I'm
2 3	parents perceive it, how the general public perceives it, and that's something that and	2 3	might not be an actual one off the list, but I'm saying you can't say thank you so you
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2 3 4 5	parents perceive it, how the general public perceives it, and that's something that and I'm just asking the question, throwing it out there, is this something perception-wise that	2 3 4 5	might not be an actual one off the list, but I'm saying you can't say thank you so you could see, and I would tell you that if you've got a math teacher, a science teacher, whatever
2 3 4 5 6	parents perceive it, how the general public perceives it, and that's something that and I'm just asking the question, throwing it out there, is this something perception-wise that might be of good use?	2 3 4 5 6	might not be an actual one off the list, but I'm saying you can't say thank you so you could see, and I would tell you that if you've got a math teacher, a science teacher, whatever it is, and you've got a class of 45 and you're
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	174		176
	effect size. In this case some of the		
1		1	students and another teacher has 30 students,
2	homogeneity in class size statistics are	2	the difference in the expectation is less than
3	statistically not relevant. Both of those	3	one skill score point difference. So you can
4	things are true here.	4	have two arguments here, one that says you went
5	I think that distinction is important.	5	to the data and you resolved that it didn't make
6	While some of the SWD statistics may not be	6	the real statistical scientific difference. The
7	statistically significant, their effect size was	7	other pathway is you could keep things in
8	appreciable in most cases. So to me then you	8	because you believe that they matter and some
9	can still make the argument and I think it's a	9	people will perceive that they matter. Then
10	good one to tell teachers absolutely those were	10	it's a little harder to defend a thing why you
11	taken into account at a level of granularity	11	didn't include other variables as well.
12	that speaks to you and the kids in your class;	12	MS. ACOSTA: I have a question which will
13	and I think that's a great position to be able	13	help me decide where I want to be.
14	to advocate for the decisions that we're making.	14	Will this matter even though in general
15	In this case, it almost to me would feel a	15	we say it's not statistically significant, but
16	little disingenuous because I would know that	16	will it matter sometimes? For example, I'm
17	half of these factors were not statistically	17	looking at class size 5 going to the fourth
18	significant to start with; and even the ones	18	column. It's 1.967. That's almost two points
19	that were statistically significant had	19	per student, right? Does that mean if
20	extremely small effect sizes. So it's almost	20	DR. DORAN: Which column are you looking
21	like pandering. I wonder if it's not more	21	at, just to make sure? Yeah, because you have
22	constructive to actually say these were	22	effect and you have standard error, like this.
23	considered and they were minuscule; and so they	23	So which one are you looking at?
24	were not in the model. That brings the	24	MS. ACOSTA: I was looking at the standard
25	conversation forward a little bit, I think, to	25	error not the effect.
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	175		177
1	this isn't a factor.	1	DR. DORAN: Okay. Yes, the standard errors
1 2	this isn't a factor. DR. DORAN: I would just add one thing to	1 2	DR. DORAN: Okay. Yes, the standard errors are not
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	(=0	1	100
	178		180
1	difference between two teachers. So a	1	lot of people asking questions about will class
2	difference of 50 students would be a four point	2	size be considered? It is from a policy
3	difference in the expectation between two	3	standpoint, I think it does matter to a lot of
4	teachers. So you have to get beyond pretty	4	teachers out there, to a lot of parents who want
5	large differences.	5	to know, you know. It doesn't matter that my
6	MS. BROWN: Tenth grade?	6	child is in a classroom that has 45 students
7	DR. DORAN: Tenth grade. Which variable,	7	versus a class size that has 20 students.
8	which row?	8	And the other piece that I go back to is
9	MS. BROWN: Class one. It's 0.248. It's	9	we're looking at an example and only an example
10	still small, but if you go over to 10th grade,	10	of trying to decide whether it's statistically
11	so now you're looking at 10 kids makes a	11	important or not, understand that, and the
12	difference of	12	policy piece, too. But we also are basing this
13	DR. DORAN: Ten kids makes a difference in	13	on reading and math core subjects, being tested
14	this particular grade of 2.5 scale points.	14	right now with the tools available as opposed to
15	MS. ACOSTA: In a positive expectation,	15	having a statistical model where the tools are
16	right?	16	in flux and they're already saying, you know, by
17	DR. DORAN: Yeah.	17	next year we have to have better data collection
18	MR. FOERSTER: Isn't that interesting?	18	and those things are going to change over time.
19	DR. DORAN: If you increase class size,	19	If that's an element that we're capturing, it
20	there's a higher prediction because for whatever	20	may give some comfort to people to accept those
21	reason observed in the data, those teachers	21	numbers.
22	it means you're a good teacher, more kids. Who	22	DR. DORAN: Linda, just to dovetail on
23	knows?	23	something that you're saying, people might ask
24	MR. LeTELLIER: Do you have any ideas of	24	you the question did class size matter. Here we
25	interpreting that as far as why some are	25	can actually see whether or not it does and so
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	179		181
			101
1		1	-
1	negative, some are positive.	1	here we see does it matter, the answer is pretty
2	negative, some are positive. DR. DORAN: I don't, I don't. There are a	2	here we see does it matter, the answer is pretty close to not mattering. There's a difference
2 3	negative, some are positive. DR. DORAN: I don't, I don't. There are a lot of variables that in fact, part of what	2 3	here we see does it matter, the answer is pretty close to not mattering. There's a difference you have to have 10 kids before you get less
2 3 4	negative, some are positive. DR. DORAN: I don't, I don't. There are a lot of variables that in fact, part of what you're asking is part of the complication. The	2 3 4	here we see does it matter, the answer is pretty close to not mattering. There's a difference you have to have 10 kids before you get less than one closer to a scale to a point
2 3 4 5	negative, some are positive. DR. DORAN: I don't, I don't. There are a lot of variables that in fact, part of what you're asking is part of the complication. The more variables you include when you lose that	2 3 4 5	here we see does it matter, the answer is pretty close to not mattering. There's a difference you have to have 10 kids before you get less than one closer to a scale to a point difference. You can see that that's the pattern
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	400	1	101
	182		184
1	that's being used?	1	that and maybe I'm treading on thin ice here,
2	MR. FOERSTER: Well, because the data	2	but I believe there may be some issues with, and
3	indicated that the co-efficient on this variable	3	this goes back to the course code directory
4	was so tiny.	4	decisions, but if some of the courses that count
5	MR. MOREHOUSE: Does it matter what the	5	as reading courses are drama, journalism, et
6	average size sample was per class?	6	cetera, those don't have class caps that are
7	DR. DORAN: No.	7	forced by the law like English 1 intensive
8	MR. MOREHOUSE: Doesn't matter?	8	reading; therefore, this is the perfect
9	DR. DORAN: It doesn't matter.	9	situation where we may end up with class one may
10	Can I ask a question just for my	10	be your capped class, but class two may be the
11	understanding. The class size policy is in	11	class of 40, 60, whatever, because they're not
12	effect now; is that right?	12	capped. So am I there or am I wrong?
13	PANEL MEMBERS: Yes.	13	MS. KEARSCHNER: We can use middle school
14	DR. DORAN: So classes in the elementary	14	social studies, right, for the next until
15	level can't exceed some particular number?	15	there's a course, didn't we say, in middle
16	PANEL MEMBERS: Yes.	16	school?
17	DR. DORAN: What was that?	17	MS. ACOSTA: No, they're on the list to
18	PANEL MEMBER: Eighteen.	18	stay at 22 to 25.
19	DR. DORAN: Eighteen?	19	MR. FOERSTER: Yes, sir?
20	PANEL MEMBER: Eighteen to 22.	20	MR. CAMPUTARO: I'd like to go back to what
21	DR. DORAN: Eighteen to 22. I'm willing to	21	Harold said earlier about, okay, I understand
22	bet that before that policy was in effect there	22	from a teacher's perspective we like to see
23	were class sizes that were even bigger than	23	data, so if we kept it in there and I guess my
24	that.	24	score, whatever, my value-added model, and it's
25	PANEL MEMBERS: Yes.	25	like, okay, you got this score, and then I say
	American Court Reporting		American Court Reporting
	850.421.0058		850.421.0058
	183		185
1	DR. COHEN: Most schools don't make their	1	well, maybe they can reduce my class size, we
2	class size targets, though, right?	2	have the data to show them. But it's not really
2 3	class size targets, though, right? PANEL MEMBER: We made it.	2 3	have the data to show them. But it's not really significant from what we see, which then like
2 3 4	class size targets, though, right? PANEL MEMBER: We made it. MS. BROWN: And right now some of them	2 3 4	have the data to show them. But it's not really significant from what we see, which then like Harold says opens up Pandora's box. Well, if
2 3 4 5	class size targets, though, right? PANEL MEMBER: We made it. MS. BROWN: And right now some of them aren't making it just because they can't move	2 3 4 5	have the data to show them. But it's not really significant from what we see, which then like Harold says opens up Pandora's box. Well, if we're prepared to show data that's insignificant
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	100		400
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1	and say really these don't matter. And to	1	decision or a motion we've got to be clear
2	Linda's point about teachers wanting to know	2	because if we're throwing all of them out then
3	that we've taken that into account, I think it's	3	not only do you have to explain that you took
4	fair to say we did take it into account, studied	4	out things that are not significant, but why did
5	it, looked at it statewide, and have compelling	5	you take out something that was?
6	evidence that it's irrelevant. And that's a	6	MS. FEILD: How could anybody have had six
7	different answer than saying no, we didn't look	7	classes?
8	at it, or no, we didn't take it into account.	8	DR. HOVANETZ: That's a good point. One
9	That's not what happened here.	9	more piece of information. There are very few
10	MS. BOURN: Can't that be part of the	10	students that have six courses based on the
11	communication that's sent out?	11	breakout of the six, so even if the effect size
12	DR. DORAN: To be clear, it will be and	12	is 5.4, it's not attributed to a lot of
	we're doing multiple technical documents that	13	students.
13			
14	will expand on this and show in summary	14	MS. FEILD: Right. * * * * * *
15	documents that reflect the decisions of the	15	
16	committee and things of so, yes.	16	(Whereupon, this concludes Day 2, Volume 1.
17	MS. KEARSCHNER: I vote for eliminating it,	17	Day 2, Volume 2 will commence without
18	class size, if it's insignificant, why include	18	interruption.)
19	it?	19	
20	DR. DORAN: Is that a motion?	20	
21	MS. BROWN: Wait, wait, could I just ask	21	
22	one quick question just look at the statistic	22	
23	because we're saying originally we were told	23	
24	that what is highlighted is not statistically	24	
25	significant, so we can't just say eliminate	25	
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1	class size because there are some that are and		
2	some that aren't.		
3	MR. FOERSTER: But the effect size even for		
4	the ones that are statistically significant are		
5	irrelevant.		
6	MR. LeTELLIER: But that's what Harold		
7	remember what he just said about because we've		
8	been working under these close stringent caps		
9	and now we're loosening the reins on that, where		
10	some courses are not going to be core anymore,		
11	and that could change those co-efficients quite		
12	a bit.		
13	MS. BROWN: And even just looking at the		
14	co-efficients that are there, say look at the		
15	effect size. Look at class six 6th grade, it's		
16	5.45. It's huge, I guess, or I don't know.		
17	MR. TOMEI: Which class?		
18	MS. BROWN: Sixth grade.		
10	MR. LeTELLIER: Where are we looking?		
20	MS. BROWN: Class 6, row 32, column D.		
20	What is that number?		
24			
21			
22	MR. LeTELLIER: Plus 5.456.		
22 23	MR. LeTELLIER: Plus 5.456. MS. BROWN: It's huge; it's not		
22 23 24	MR. LeTELLIER: Plus 5.456. MS. BROWN: It's huge; it's not statistically insignificant. I'm not arguing		
22 23	MR. LeTELLIER: Plus 5.456. MS. BROWN: It's huge; it's not statistically insignificant. I'm not arguing either way; I'm just saying when we make that		
22 23 24	MR. LeTELLIER: Plus 5.456. MS. BROWN: It's huge; it's not statistically insignificant. I'm not arguing		

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