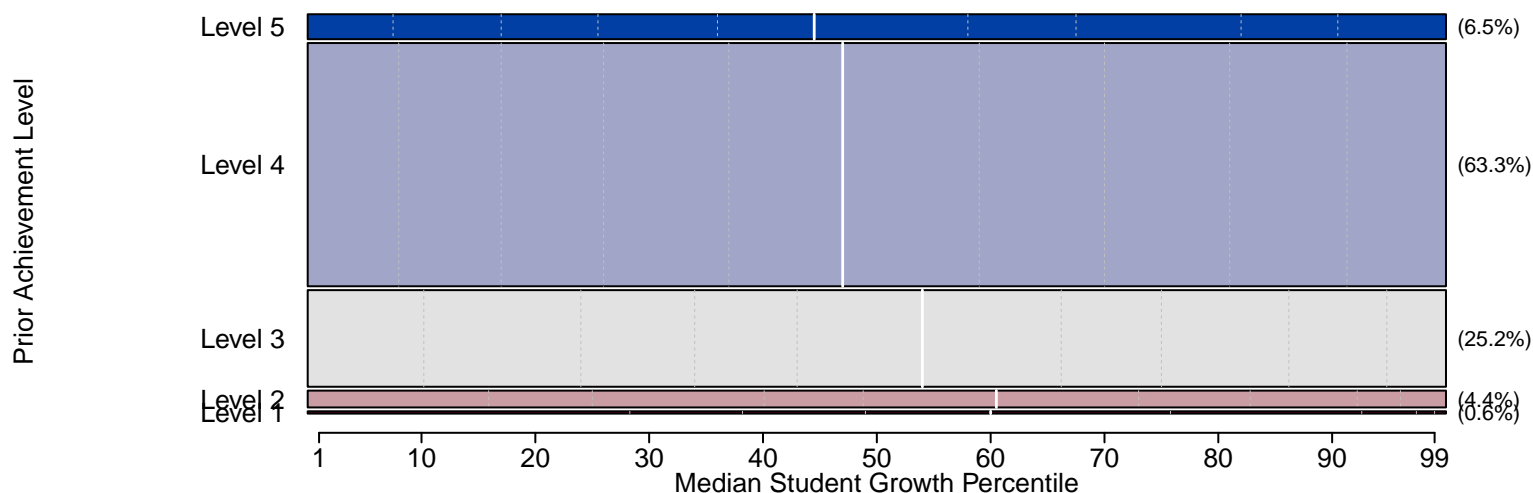# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Integrated Math 1 SGP SIMEX, Grade EOCT (N = 1,323)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (y-axis):
- Level 5 (6.5%)
- Level 4 (63.3%)
- Level 3 (25.2%)
- Level 2 (4.4%)
- Level 1 (0.6%)

Median Student Growth Percentile (x-axis): 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99

Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)

		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[−15,−0.861)	50.0	4.5	4.5	4.5	4.5	18.2	0.0	0.0	4.5	0.0	0.0	9.1	N = 22
	[−0.861,−0.621)	46.4	3.6	14.3	14.3	3.6	10.7	0.0	3.6	0.0	0.0	0.0	3.6	N = 28
Highest OSS:	[2.58,2.82]	0.0	0.0	10.5	0.0	0.0	15.8	10.5	10.5	0.0	10.5	5.3	36.8	N = 19
	[2.82,3.93]	0.0	0.0	0.0	0.0	6.2	3.1	0.0	12.5	6.2	21.9	25.0	25.0	N = 32

Student Growth Percentile Range

Prior Scale Score Decile/Range*

	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[−5.29,−0.082)	12.21	5.34	10.69	4.58	12.21	5.34	8.40	9.92	11.45	19.85	(9.9%)
2nd/[−0.082,0.291)	8.40	7.63	10.69	9.92	11.45	9.92	11.45	7.63	6.11	16.79	(9.9%)
3rd/[0.291,0.524)	7.32	8.13	8.13	8.13	8.94	9.76	11.38	9.76	12.20	16.26	(9.3%)
4th/[0.524,0.761)	9.09	11.19	9.79	6.29	12.59	8.39	5.59	11.89	15.38	9.79	(10.8%)
5th/[0.761,0.971)	17.69	10.00	11.54	6.15	5.38	4.62	10.77	9.23	9.23	15.38	(9.8%)
6th/[0.971,1.16)	10.69	14.50	11.45	10.69	5.34	9.92	9.16	10.69	8.40	9.16	(9.9%)
7th/[1.16,1.31)	11.68	8.76	10.22	9.49	11.68	10.95	5.11	10.22	10.22	11.68	(10.4%)
8th/[1.31,1.56)	10.61	10.61	12.12	9.09	10.61	7.58	12.12	9.85	6.82	10.61	(10%)
9th/[1.56,1.84)	11.02	14.17	8.66	14.17	10.24	7.09	6.30	7.87	9.45	11.02	(9.6%)
10th/[1.84,15]	11.59	13.77	6.52	10.87	9.42	7.25	11.59	8.70	7.25	13.04	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution (y-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100