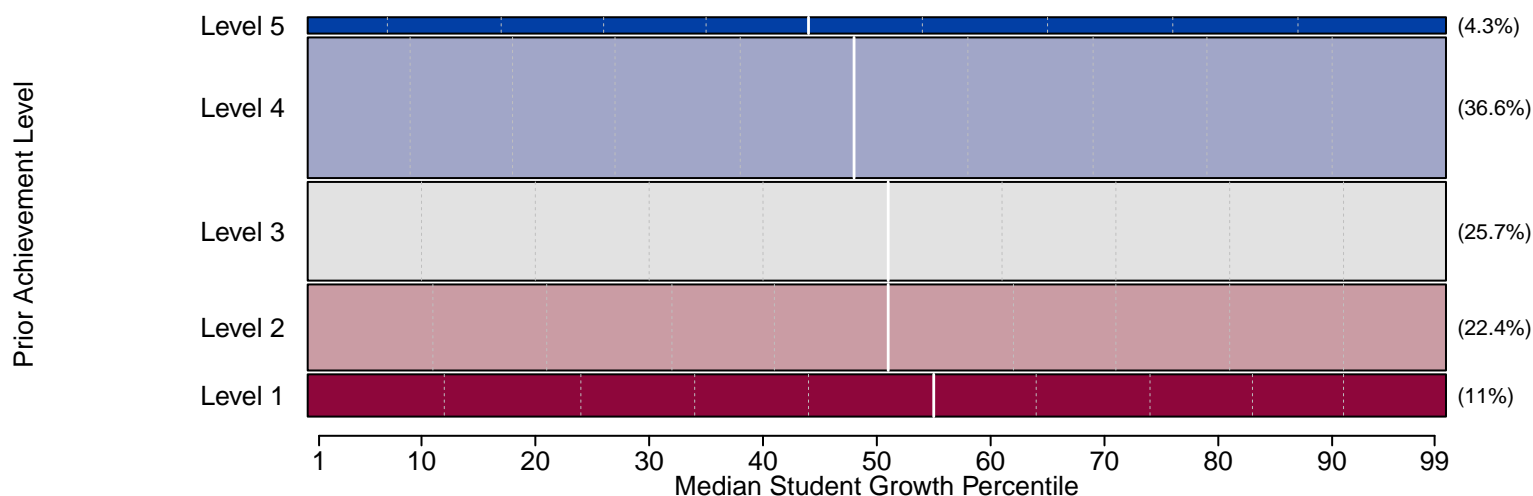# Student Growth Percentile Goodness–of–Fit Descriptives

2017–2018.2 Geometry SGP SIMEX Ranked, Grade EOCT (N = 110,573)

SGP Deciles by Prior Achievement Level (Algebra I)

Prior Achievement Level	
Level 5	(4.3%)
Level 4	(36.6%)
Level 3	(25.7%)
Level 2	(22.4%)
Level 1	(11%)

Median Student Growth Percentile

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,−4.096)	95.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 20
	[−4.096,−3.758]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 39
Highest OSS:	[3.834,4.137]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	27.3	63.6	N = 22
	[4.137,5.216]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	85.3	N = 34

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/[−15,−1.2)	7.76	8.54	9.15	9.29	10.24	10.17	10.78	10.89	10.90	12.29	(9.8%)
2nd/[−1.2,−0.7983)	8.44	8.94	9.86	10.52	9.95	9.60	10.95	10.51	10.28	10.95	(9.8%)
3rd/[−0.7983,−0.4904)	9.16	9.36	9.69	10.01	10.37	9.76	9.74	10.00	10.11	11.80	(9.6%)
4th/[−0.4904,−0.1878)	8.93	9.55	9.57	9.35	10.09	10.30	9.75	10.63	10.42	11.40	(10.6%)
5th/[−0.1878,0.1108)	9.43	10.09	9.90	9.71	9.98	9.88	9.57	9.89	9.97	11.58	(9.5%)
6th/[0.1108,0.4357)	10.36	10.23	9.47	9.89	10.10	9.43	9.95	9.08	10.44	11.05	(10.5%)
7th/[0.4357,0.7727)	11.28	10.76	10.32	9.74	9.89	9.56	8.74	9.00	10.01	10.69	(10%)
8th/[0.7727,1.161)	10.71	11.30	10.47	9.44	9.27	9.48	9.89	9.26	9.75	10.44	(10%)
9th/[1.161,1.674)	10.56	10.62	9.73	9.99	10.13	9.91	9.68	10.00	9.47	9.89	(10.2%)
10th/[1.674,7.13]	10.96	11.19	10.67	10.61	10.09	9.38	9.78	10.46	8.39	8.47	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution