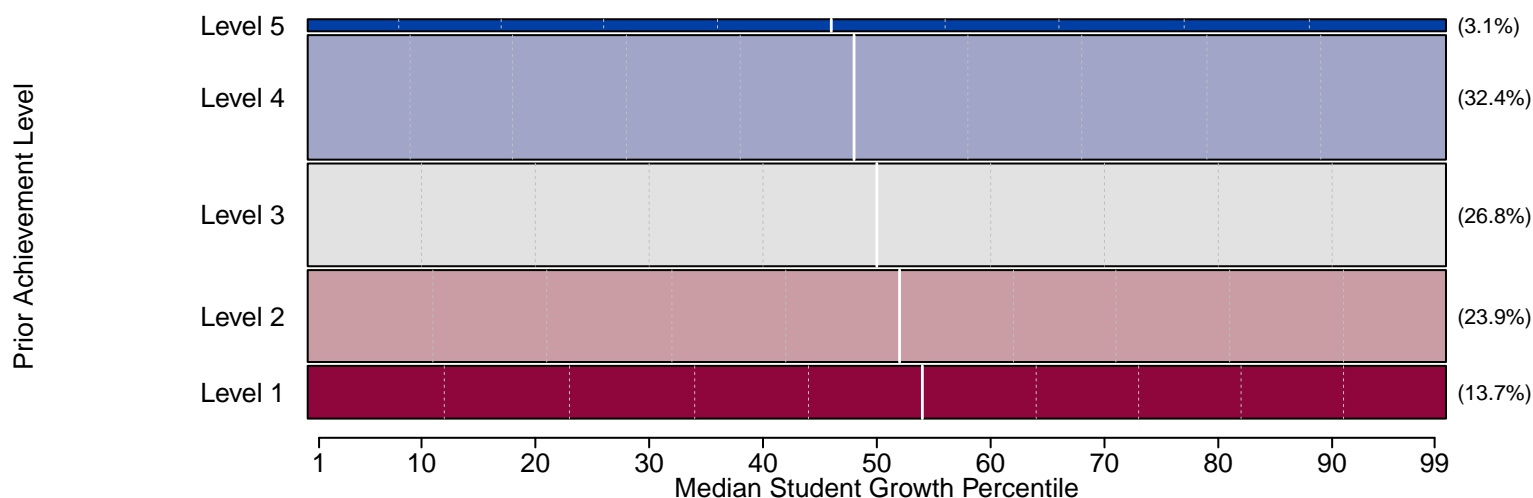# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Mathematics SGP SIMEX Ranked, Grade 5 (N = 393,845)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	Percent
Level 5	(3.1%)
Level 4	(32.4%)
Level 3	(26.8%)
Level 2	(23.9%)
Level 1	(13.7%)

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,−4.8]	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 = 22
	[−4.7978]	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 = 32
Highest OSS:	[4.88,5.24]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 8
	[5.24,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	93.8	N = 48

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,−1.59)	7.77	8.89	9.37	9.72	9.58	10.39	10.70	10.84	11.08	11.66	(9.7%)
2nd/[−1.59,−1.13)	7.72	9.09	9.68	9.76	10.08	10.33	10.40	10.62	10.62	11.71	(10%)
3rd/[−1.13,−0.795)	8.51	9.48	9.80	9.91	9.58	10.32	10.08	10.31	10.65	11.35	(10.2%)
4th/[−0.795,−0.487)	9.45	9.66	9.90	9.69	10.17	10.01	9.98	10.30	9.94	10.90	(10%)
5th/[−0.487,−0.171)	10.03	10.07	9.78	10.15	9.92	9.75	10.13	9.97	9.93	10.27	(10%)
6th/[−0.171,0.153)	9.30	9.88	10.04	10.15	10.27	9.75	10.14	9.78	10.17	10.54	(9.9%)
7th/[0.153,0.442)	9.55	10.30	10.03	9.94	10.18	9.98	9.67	9.80	9.92	10.62	(10.1%)
8th/[0.442,0.788)	10.26	10.65	10.00	9.99	10.07	9.82	9.82	9.54	9.58	10.26	(9.9%)
9th/[0.788,1.26)	11.10	10.97	10.22	10.31	9.87	9.47	9.78	9.46	9.32	9.50	(10%)
10th/[1.26,15]	11.28	10.75	10.46	10.44	9.80	10.10	9.67	9.51	9.14	8.84	(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