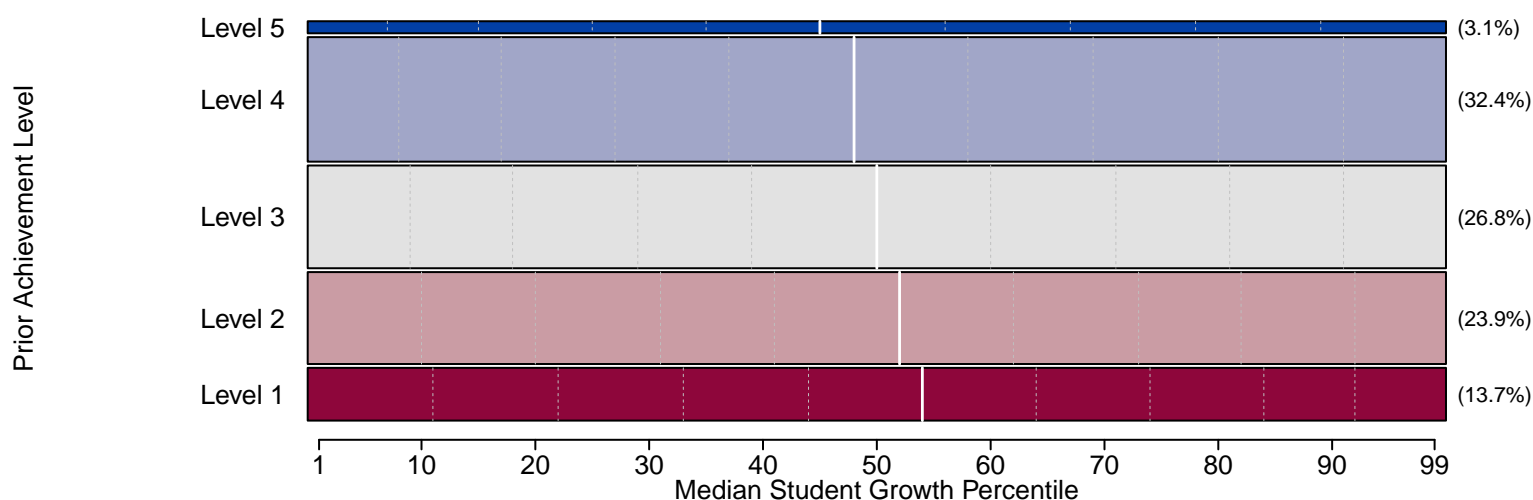# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Mathematics SGP SIMEX, 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	2.1	97.9	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)	8.87	9.10	9.21	9.26	9.00	9.93	9.89	10.70	10.86	13.19	(9.7%)
2nd/[−1.59,−1.13)	8.70	9.48	9.33	9.45	9.51	9.83	9.69	10.32	10.62	13.07	(10%)
3rd/[−1.13,−0.795)	9.67	9.63	9.50	9.60	9.01	9.84	9.39	9.94	10.68	12.74	(10.2%)
4th/[−0.795,−0.487)	10.49	10.08	9.47	9.27	9.67	9.54	9.32	9.93	10.13	12.10	(10%)
5th/[−0.487,−0.171)	11.16	10.29	9.55	9.70	9.39	9.33	9.48	9.66	10.04	11.40	(10%)
6th/[−0.171,0.153)	10.51	10.08	9.70	9.81	9.68	9.29	9.49	9.43	10.17	11.84	(9.9%)
7th/[0.153,0.442)	10.82	10.51	9.75	9.42	9.63	9.52	9.01	9.40	10.02	11.92	(10.1%)
8th/[0.442,0.788)	11.50	10.93	9.68	9.52	9.47	9.37	9.21	9.20	9.64	11.48	(9.9%)
9th/[0.788,1.26)	12.45	11.11	9.87	9.90	9.27	9.05	9.07	9.26	9.38	10.64	(10%)
10th/[1.26,15]	12.56	10.97	10.14	10.08	9.15	9.52	9.11	9.24	9.18	10.06	(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