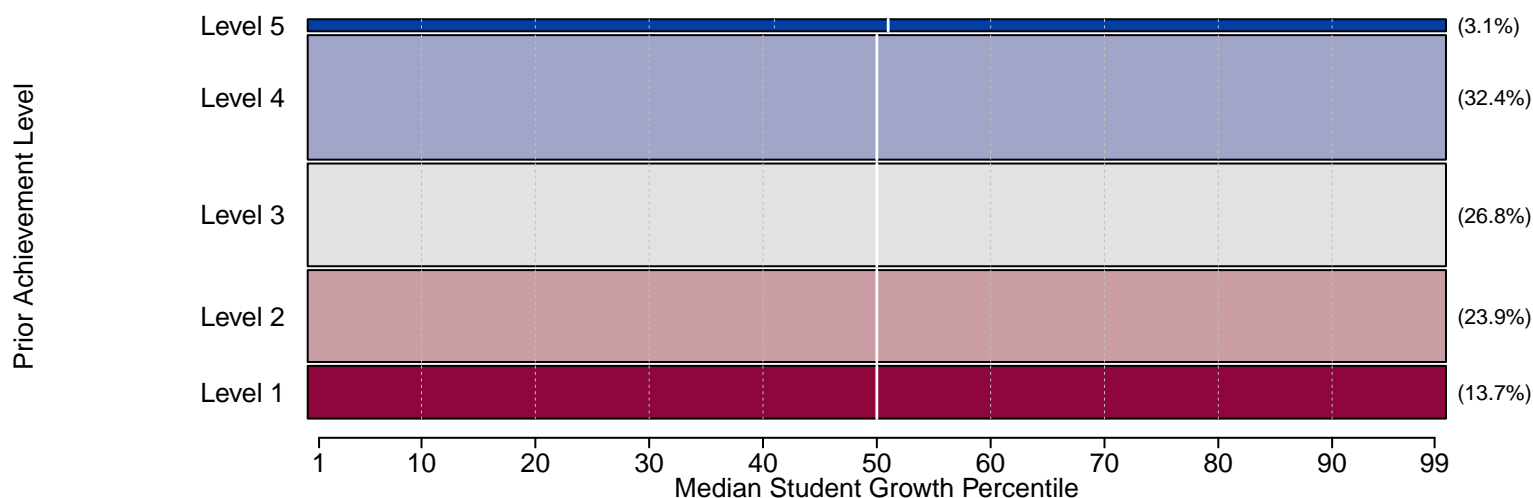# Student Growth Percentile Goodness–of–Fit Descriptives

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

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	Percentage
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)

	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 *

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)	10.01	10.16	9.97	10.00	9.84	9.94	9.99	9.90	9.95	10.23	(9.7%)
2nd/[−1.59,−1.13)	9.14	9.95	9.91	10.07	10.17	9.94	10.11	10.04	9.93	10.73	(10%)
3rd/[−1.13,−0.795)	9.31	9.83	10.11	9.97	9.76	10.07	9.90	10.03	10.19	10.84	(10.2%)
4th/[−0.795,−0.487)	9.57	10.11	9.97	9.73	10.09	10.02	9.86	10.05	9.95	10.65	(10%)
5th/[−0.487,−0.171)	9.85	10.18	9.89	10.05	9.99	9.77	10.07	10.02	9.98	10.20	(10%)
6th/[−0.171,0.153)	9.22	9.61	10.02	10.28	10.11	9.98	10.12	9.93	10.19	10.54	(9.9%)
7th/[0.153,0.442)	9.31	10.01	10.06	9.79	10.02	10.08	9.83	10.08	10.04	10.78	(10.1%)
8th/[0.442,0.788)	9.69	10.14	9.98	9.89	9.82	10.09	10.00	9.87	9.89	10.64	(9.9%)
9th/[0.788,1.26)	9.88	10.25	10.15	9.92	9.99	9.77	9.92	10.04	9.81	10.28	(10%)
10th/[1.26,15]	9.21	9.77	9.80	10.14	10.06	10.07	10.08	10.00	10.20	10.67	(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