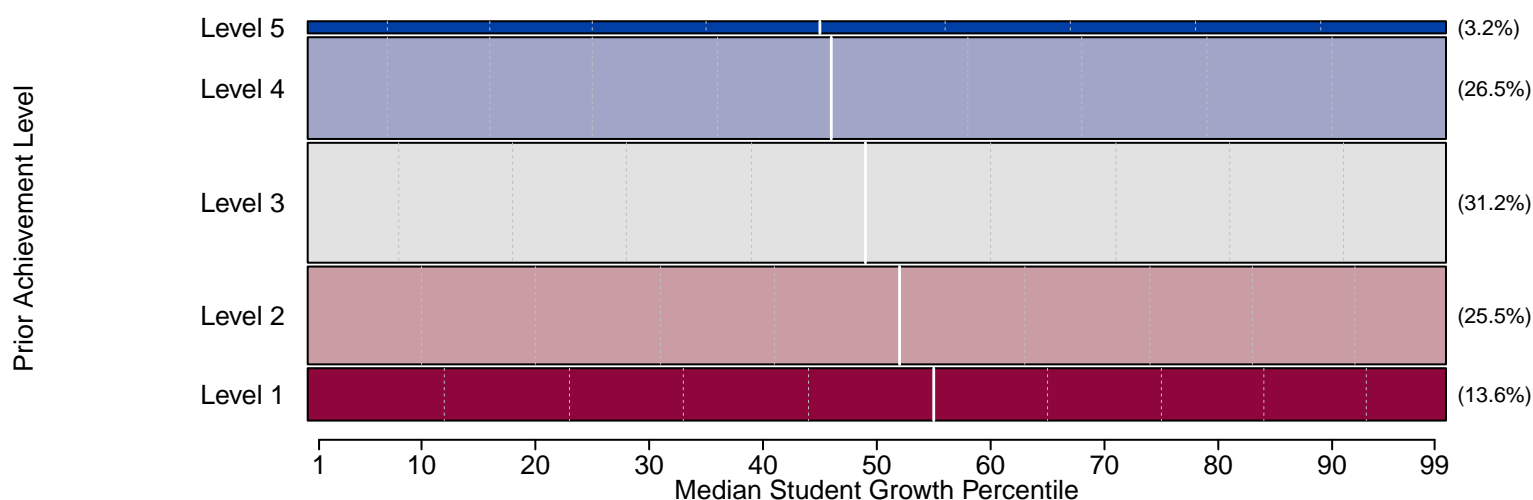# Student Growth Percentile Goodness–of–Fit Descriptives
2016–2017.2 Mathematics SGP SIMEX, Grade 7 (N = 369,843)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level:
- Level 5 (3.2%)
- Level 4 (26.5%)
- Level 3 (31.2%)
- Level 2 (25.5%)
- Level 1 (13.6%)

Median Student Growth Percentile: 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]	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 = 261
Highest OSS:	[4.62,5.04)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	4.8	28.6	57.1	N = 21
	[5.04,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	2.3	4.5	84.1	N = 44

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,−1.57)	8.02	8.78	9.03	9.13	9.05	9.67	9.93	10.96	11.10	14.33	(9.7%)
2nd/[−1.57,−1.1)	9.24	9.47	9.17	9.21	9.41	9.81	9.52	10.16	10.85	13.16	(10.2%)
3rd/[−1.1,−0.794)	9.67	9.69	9.23	9.10	9.07	9.38	9.36	9.90	10.97	13.63	(9.7%)
4th/[−0.794,−0.472)	10.55	9.83	9.75	9.20	9.26	9.43	9.33	9.83	10.24	12.57	(10.3%)
5th/[−0.472,−0.203)	11.52	10.55	9.70	9.29	9.37	9.41	9.33	9.70	9.55	11.59	(9.5%)
6th/[−0.203,0.0932)	11.49	10.01	9.47	9.78	9.38	9.40	9.43	9.49	9.69	11.86	(10.6%)
7th/[0.0932,0.391)	12.00	10.16	9.68	9.32	8.99	9.31	9.36	9.25	9.88	12.05	(9.8%)
8th/[0.391,0.736)	12.43	10.74	10.01	9.35	9.30	9.05	8.93	9.18	9.58	11.43	(10.2%)
9th/[0.736,1.21)	13.61	10.85	10.03	9.34	9.23	8.80	9.42	9.22	9.02	10.48	(10%)
10th/[1.21,15]	13.20	10.87	10.23	9.78	9.68	9.19	8.91	9.10	9.01	10.02	(10.1%)

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

QQ-Plot: Student Growth Percentiles

Theoretical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100