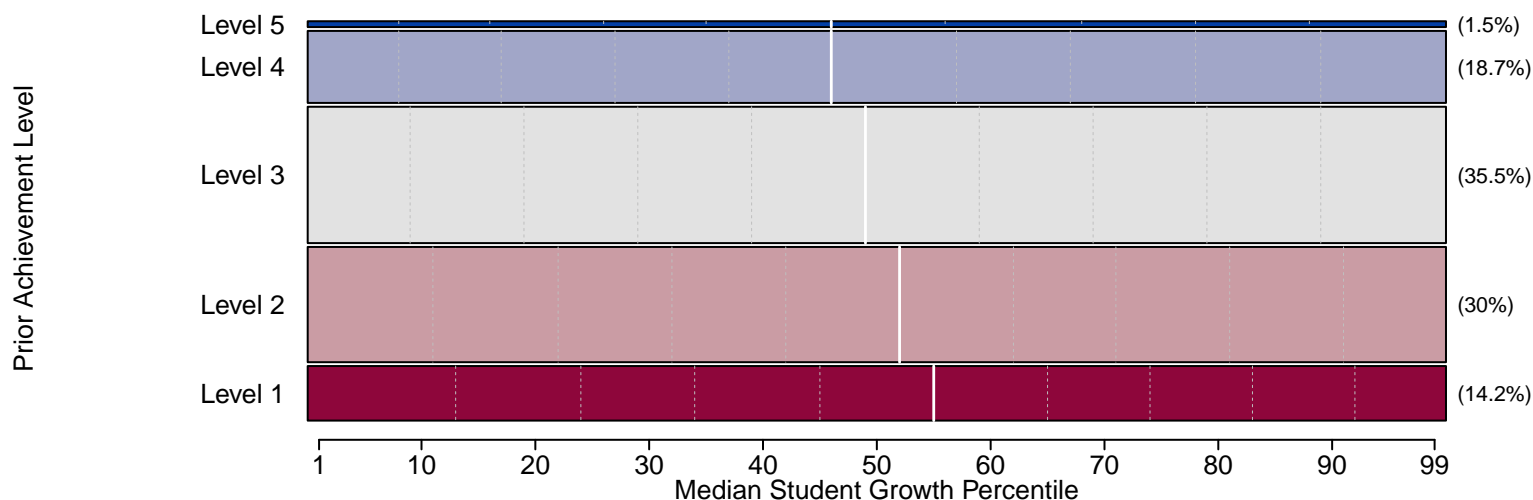# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Mathematics SGP SIMEX Ranked, Grade 8 (N = 290,655)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level:
- Level 5 (1.5%)
- Level 4 (18.7%)
- Level 3 (35.5%)
- Level 2 (30%)
- Level 1 (14.2%)

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 = 88
Highest OSS:	[4.96,5.53)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	9.1	22.7	54.5	N = 22
	[5.53,15]	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	12.5	9.4	75.0	N = 32

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,−1.65)	7.24	8.64	8.97	9.01	9.87	10.02	10.51	10.74	11.93	13.05	(9.7%)
2nd/[−1.65,−1.2)	7.70	9.05	9.95	10.15	10.23	9.91	10.39	10.38	10.91	11.31	(9.5%)
3rd/[−1.2,−0.885)	8.45	9.32	9.58	10.14	9.90	10.40	10.07	10.35	10.40	11.39	(10.2%)
4th/[−0.885,−0.599)	8.25	9.33	9.68	10.25	9.79	10.20	10.83	10.18	10.43	11.07	(10.1%)
5th/[−0.599,−0.305)	9.07	9.67	10.21	9.90	9.95	9.85	10.03	10.21	9.96	11.15	(10.4%)
6th/[−0.305,−0.0774)	9.70	10.01	9.86	10.10	10.07	10.08	10.10	10.32	9.94	9.82	(9.2%)
7th/[−0.0774,0.233)	10.46	10.54	10.09	10.17	9.99	9.84	9.78	9.74	9.85	9.54	(10.6%)
8th/[0.233,0.579)	11.06	10.85	10.62	10.24	10.08	9.99	9.60	9.30	8.78	9.49	(10%)
9th/[0.579,1.04)	11.36	10.82	10.43	9.82	9.96	9.42	9.45	9.37	9.40	9.95	(10.1%)
10th/[1.04,5.59]	11.62	11.02	10.48	10.62	10.07	9.57	9.53	9.32	9.06	8.73	(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