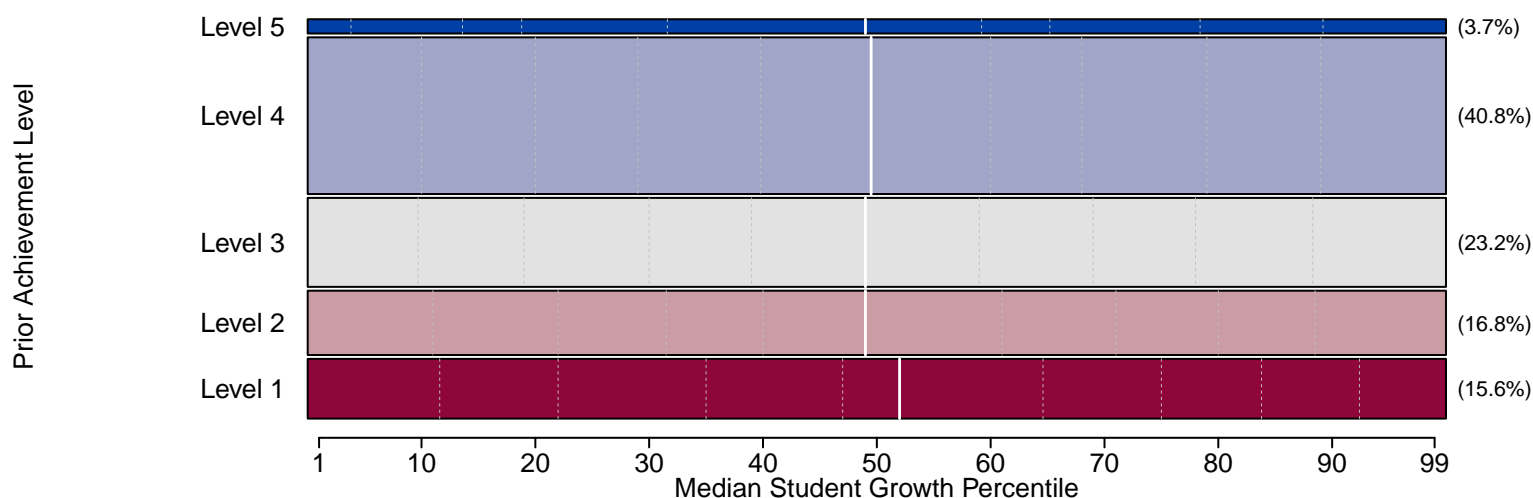# Student Growth Percentile Goodness–of–Fit Descriptives

2017–2018.2 Geometry SGP SIMEX Ranked, Grade EOCT (N = 1,588)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (y-axis):
- Level 5 (3.7%)
- Level 4 (40.8%)
- Level 3 (23.2%)
- Level 2 (16.8%)
- Level 1 (15.6%)

Median Student Growth Percentile (x-axis): 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99

Ceiling / Floor Effects Test

Current Observed Score Extremes (Range)

Student Growth Percentile 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: [−3.07,−1.928)	69.6	21.7	4.3	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	N = 23
[−1.928,−1.698]	29.6	22.2	29.6	3.7	3.7	3.7	3.7	0.0	0.0	3.7	0.0	0.0	N = 27
Highest OSS: [1.635,1.787]	0.0	0.0	0.0	0.0	0.0	8.3	4.2	16.7	25.0	16.7	16.7	12.5	N = 24
[1.787,2.578]	0.0	0.0	0.0	0.0	0.0	7.4	0.0	11.1	14.8	18.5	14.8	33.3	N = 27

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/[−3.8,−1.2)	7.14	9.09	7.79	8.44	14.29	9.09	10.39	9.74	7.14	16.88	(9.7%)
2nd/[−1.2,−0.61)	9.26	11.11	8.64	11.11	6.79	11.73	9.88	7.41	12.96	11.11	(10.2%)
3rd/[−0.61,−0.23)	8.97	7.69	9.62	11.54	10.26	9.62	10.26	11.54	11.54	8.97	(9.8%)
4th/[−0.23,0.15)	7.45	8.07	11.18	8.70	10.56	10.56	8.70	14.91	10.56	9.32	(10.1%)
5th/[0.15,0.41)	7.89	11.84	6.58	14.47	9.87	10.53	9.87	7.89	8.55	12.50	(9.6%)
6th/[0.41,0.75)	13.55	12.26	9.68	7.74	10.97	7.74	7.74	13.55	9.03	7.74	(9.8%)
7th/[0.75,1.1)	11.18	9.41	8.24	8.82	10.59	10.00	9.41	7.65	10.59	14.12	(10.7%)
8th/[1.1,1.4)	9.80	9.80	11.76	11.76	6.54	13.73	11.76	10.46	9.15	5.23	(9.7%)
9th/[1.4,1.8)	8.07	9.94	9.32	8.07	11.80	9.32	13.04	9.32	8.70	12.42	(10.1%)
10th/[1.8,4.9]	13.41	11.59	13.41	6.71	10.98	7.32	12.80	8.54	7.93	7.32	(10.3%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution (y-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100