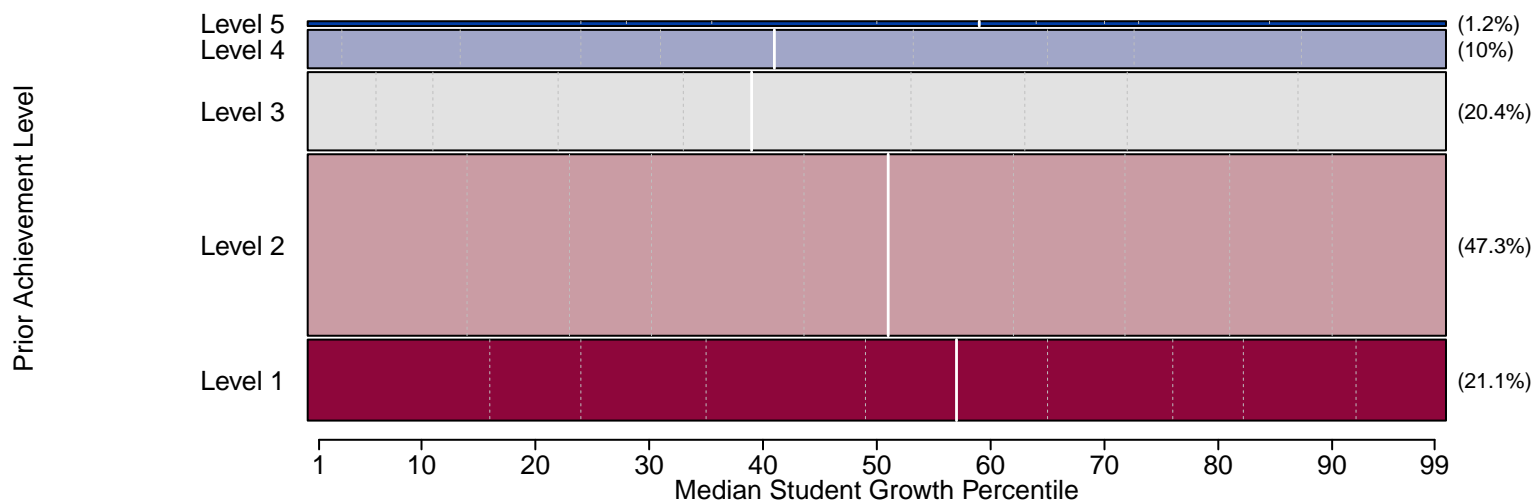# Student Growth Percentile Goodness–of–Fit Descriptives

2018–2019.1 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 1,280)

SGP Deciles by Prior Achievement Level (Geometry)

Prior Achievement Level:
- Level 5 (1.2%)
- Level 4 (10%)
- Level 3 (20.4%)
- Level 2 (47.3%)
- Level 1 (21.1%)

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,−1.9]	57.1	20.0	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
	[−1.902]	21.6	10.8	54.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
Highest OSS:	[2.034,2.38)	3.7	0.0	0.0	7.4	18.5	3.7	11.1	14.8	3.7	11.1	14.8	11.1	N = 27
	[2.38,4.131]	0.0	0.0	0.0	7.4	3.7	3.7	7.4	11.1	18.5	22.2	7.4	18.5	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,−1.6)	5.47	9.38	10.16	12.50	6.25	4.69	17.19	10.94	10.16	13.28	(10%)
2nd/[−1.6,−1.4)	5.05	7.07	6.06	7.07	18.18	12.12	11.11	13.13	12.12	8.08	(7.7%)
3rd/[−1.4,−1.1)	4.81	3.85	10.58	12.50	9.62	18.27	6.73	14.42	5.77	13.46	(8.1%)
4th/[−1.1,−0.93)	3.68	12.88	9.82	8.59	7.36	11.66	4.29	14.11	12.27	15.34	(12.7%)
5th/[−0.93,−0.71)	6.34	11.27	11.97	7.75	13.38	11.97	8.45	8.45	10.56	9.86	(11.1%)
6th/[−0.71,−0.52)	7.92	11.88	13.86	7.92	14.85	3.96	9.90	5.94	13.86	9.90	(7.9%)
7th/[−0.52,−0.27)	7.09	12.06	12.77	4.96	11.35	7.09	16.31	7.09	9.93	11.35	(11%)
8th/[−0.27,0.13)	13.04	10.87	10.14	15.22	4.35	13.04	6.52	10.87	7.97	7.97	(10.8%)
9th/[0.13,0.69)	24.26	8.09	8.09	10.29	11.03	8.82	8.09	6.62	7.35	7.35	(10.6%)
10th/[0.69,4]	15.62	10.94	7.03	10.94	10.16	7.81	10.16	9.38	10.16	7.81	(10%)

*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