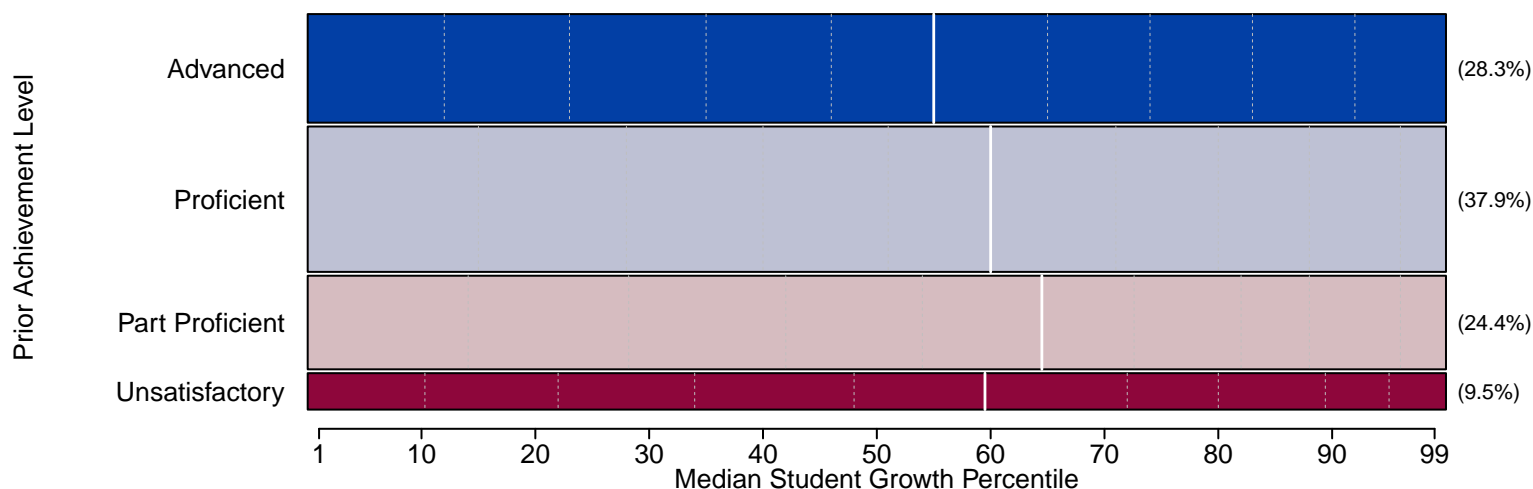# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Mathematics SGP SIMEX, Grade 7 (N = 4,152)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level

Level	(%)
Advanced	(28.3%)
Proficient	(37.9%)
Part Proficient	(24.4%)
Unsatisfactory	(9.5%)

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)

	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	N
Lowest OSS:	[280,344]	36.0	12.0	24.0	0.0	8.0	4.0	4.0	0.0	0.0	0.0	0.0	12.0	N = 25
	[344,386]	30.8	15.4	11.5	15.4	15.4	3.8	0.0	0.0	0.0	0.0	0.0	7.7	N = 26
Highest OSS:	[715,726]	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	8.0	40.0	20.0	20.0	N = 25
	[726,860]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	3.7	18.5	7.4	59.3	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*

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/[240,457)	8.76	8.76	8.03	8.52	6.57	8.76	8.52	12.17	10.46	19.46	(9.9%)
2nd/[457,490)	4.44	7.41	6.42	9.63	10.12	7.90	10.12	14.07	12.35	17.53	(9.8%)
3rd/[490,512)	6.94	8.13	5.74	7.89	7.42	10.05	11.72	9.09	12.92	20.10	(10.1%)
4th/[512,531)	6.68	8.66	7.67	6.44	9.41	7.92	9.41	11.63	10.15	22.03	(9.7%)
5th/[531,548)	5.48	7.99	5.02	8.68	7.31	10.27	7.99	12.79	15.07	19.41	(10.5%)
6th/[548,566)	8.09	6.86	7.11	9.31	9.56	10.54	10.29	10.78	11.76	15.69	(9.8%)
7th/[566,585)	6.16	6.64	6.87	10.19	8.29	13.51	9.24	9.00	13.98	16.11	(10.2%)
8th/[585,607)	7.21	7.96	6.47	8.71	10.95	9.45	7.21	12.19	13.68	16.17	(9.7%)
9th/[607,639)	9.11	8.41	7.01	10.28	8.88	9.81	12.85	12.38	9.81	11.45	(10.3%)
10th/[639,830]	8.41	9.38	9.13	8.65	11.78	10.10	11.06	8.17	12.74	10.58	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution