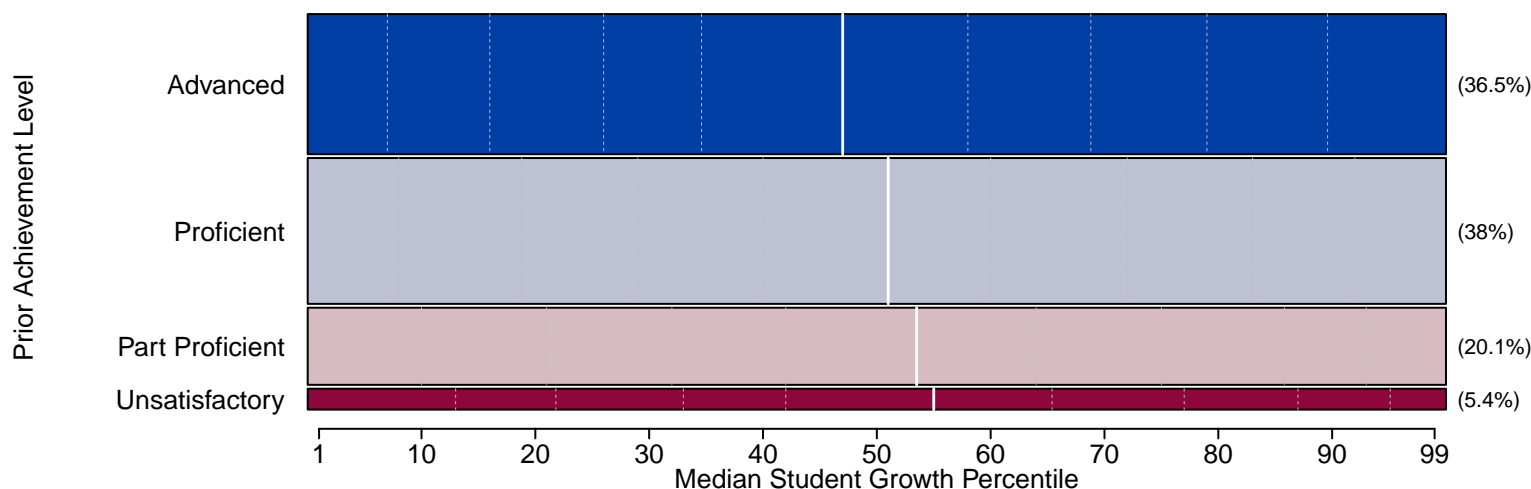# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016 Mathematics SGP SIMEX, Grade 6 (N = 4,042)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	
Advanced	(36.5%)
Proficient	(38%)
Part Proficient	(20.1%)
Unsatisfactory	(5.4%)

Median Student Growth Percentile

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:	[240,346)	36.0	16.0	16.0	12.0	0.0	0.0	8.0	8.0	0.0	0.0	0.0	4.0	N = 25
	[346,375]	32.0	8.0	20.0	8.0	12.0	0.0	0.0	4.0	4.0	0.0	8.0	4.0	N = 25
Highest OSS:	[716,731)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	31.8	18.2	40.9	N = 22
	[731,830]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	13.8	6.9	75.9	N = 29

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/[247,446)	9.32	8.06	10.08	12.34	6.05	8.31	11.84	7.81	11.59	14.61	(9.8%)
2nd/[446,480)	8.89	11.11	8.40	8.89	9.88	7.65	9.88	8.15	13.33	13.83	(10%)
3rd/[480,503)	8.85	8.60	7.86	9.58	10.57	10.32	7.62	10.32	11.79	14.50	(10.1%)
4th/[503,523)	10.67	9.68	12.66	9.43	9.43	9.18	8.44	9.43	8.93	12.16	(10%)
5th/[523,539)	9.14	8.40	6.42	9.63	11.11	10.86	7.90	10.37	11.36	14.81	(10%)
6th/[539,555)	14.32	10.55	9.55	9.30	6.78	9.55	9.30	8.04	10.05	12.56	(9.8%)
7th/[555,573)	13.35	9.95	10.19	8.01	9.71	10.19	8.74	9.95	8.01	11.89	(10.2%)
8th/[573,595)	11.89	11.37	9.30	8.27	10.59	8.01	9.82	9.82	10.59	10.34	(9.6%)
9th/[595,627)	12.06	11.58	12.29	10.64	8.27	8.27	8.51	9.69	10.40	8.27	(10.5%)
10th/[627,800)	12.84	10.62	9.38	12.59	8.15	11.60	9.14	9.14	6.91	9.63	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution