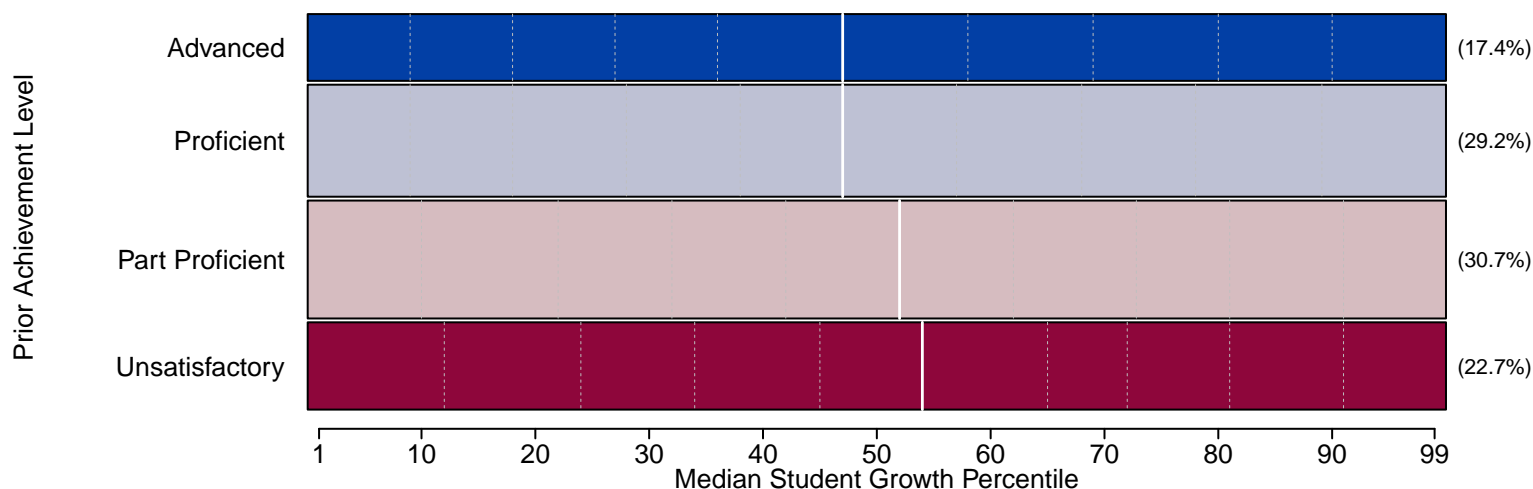# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Mathematics SGP SIMEX Ranked, Grade 10 (N = 4,250)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	
Advanced	(17.4%)
Proficient	(29.2%)
Part Proficient	(30.7%)
Unsatisfactory	(22.7%)

Median Student Growth Percentile (axis: 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:	[370]	40.6	6.2	21.9	15.6	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	(370,404]	33.3	11.1	16.7	22.2	5.6	11.1	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
Highest OSS:	[731,744]	3.8	0.0	3.8	0.0	0.0	11.5	11.5	3.8	19.2	23.1	15.4	7.7	N = 26
	[744,851]	0.0	0.0	0.0	0.0	0.0	3.7	7.4	3.7	25.9	11.1	29.6	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/[340,509)	7.29	7.53	9.41	12.24	8.94	11.06	12.24	10.35	11.06	9.88	(10%)
2nd/[509,540)	7.64	9.61	8.62	8.13	10.34	10.34	10.59	10.84	10.84	13.05	(9.6%)
3rd/[540,563)	8.80	8.13	8.80	9.93	8.80	11.29	9.26	11.06	11.74	12.19	(10.4%)
4th/[563,580)	8.43	7.95	11.33	11.08	10.36	8.19	11.33	10.12	8.92	12.29	(9.8%)
5th/[580,596)	9.66	7.97	8.70	11.84	11.84	7.73	7.97	11.59	10.63	12.08	(9.7%)
6th/[596,612)	8.75	15.13	10.40	7.57	10.64	10.17	11.11	9.69	8.51	8.04	(10%)
7th/[612,628)	9.79	10.02	10.71	10.48	12.30	9.57	8.66	9.57	9.57	9.34	(10.3%)
8th/[628,646)	11.72	9.89	8.97	9.43	8.74	11.26	8.74	11.03	8.51	11.72	(10.2%)
9th/[646,671)	10.90	12.09	10.66	8.53	9.95	9.72	9.72	8.77	8.77	10.90	(9.9%)
10th/[671,868)	11.21	11.21	11.21	8.41	11.68	8.88	8.64	8.88	9.81	10.05	(10.1%)

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

QQ–Plot: Student Growth Percentiles

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

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