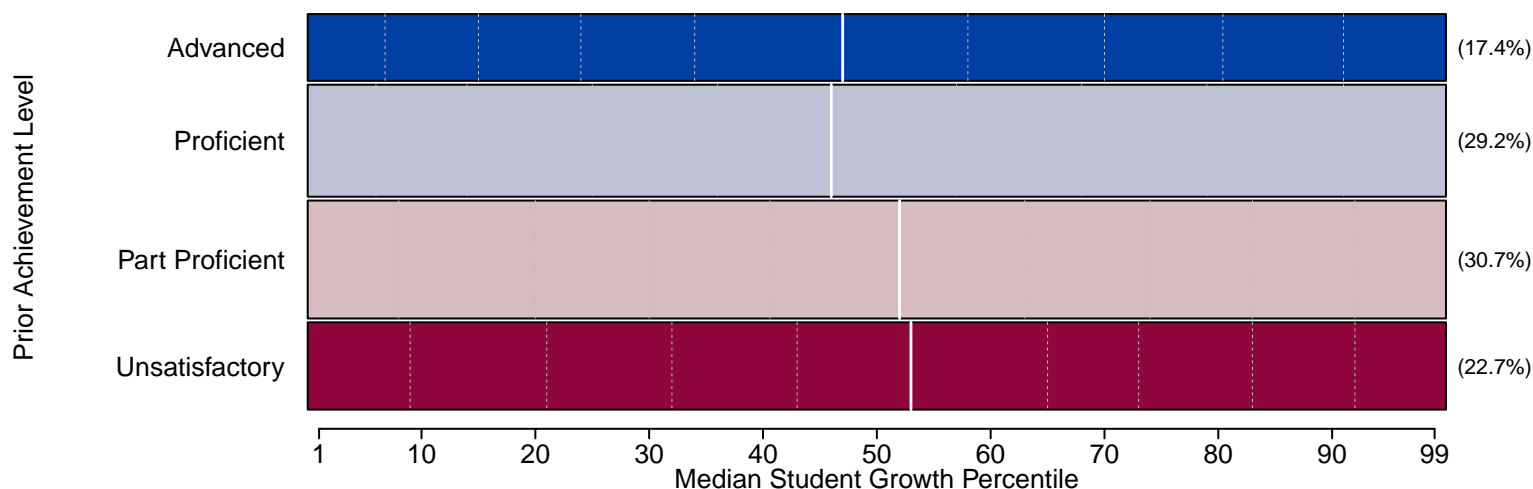# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Mathematics SGP SIMEX, 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]	43.8	18.8	9.4	18.8	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	(370,404]	38.9	16.7	5.6	27.8	0.0	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	0.0	23.1	23.1	11.5	11.5	N = 26
	[744,851]	0.0	0.0	0.0	0.0	0.0	3.7	7.4	3.7	22.2	11.1	25.9	25.9	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)	10.59	5.41	10.59	11.06	8.94	8.71	12.94	9.88	10.35	11.53	(10%)
2nd/[509,540)	9.85	8.62	9.85	6.40	11.58	7.88	11.08	10.10	9.85	14.78	(9.6%)
3rd/[540,563)	11.74	7.00	9.26	8.80	7.90	10.16	9.93	9.93	11.96	13.32	(10.4%)
4th/[563,580)	10.84	7.95	11.81	9.64	8.92	7.71	11.81	8.67	8.67	13.98	(9.8%)
5th/[580,596)	12.32	6.52	10.39	11.11	10.63	6.04	8.21	11.35	9.90	13.53	(9.7%)
6th/[596,612)	13.00	13.95	9.93	6.38	10.17	8.27	11.11	9.69	8.51	8.98	(10%)
7th/[612,628)	12.98	10.25	10.25	9.79	11.16	8.20	8.66	8.43	9.57	10.71	(10.3%)
8th/[628,646)	17.24	6.90	8.05	9.20	8.05	9.89	8.74	10.80	6.67	14.48	(10.2%)
9th/[646,671)	16.35	8.77	10.19	8.53	9.24	7.58	10.19	8.29	8.53	12.32	(9.9%)
10th/[671,868]	13.79	11.21	12.38	5.84	10.51	8.18	8.18	9.11	9.11	11.68	(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)