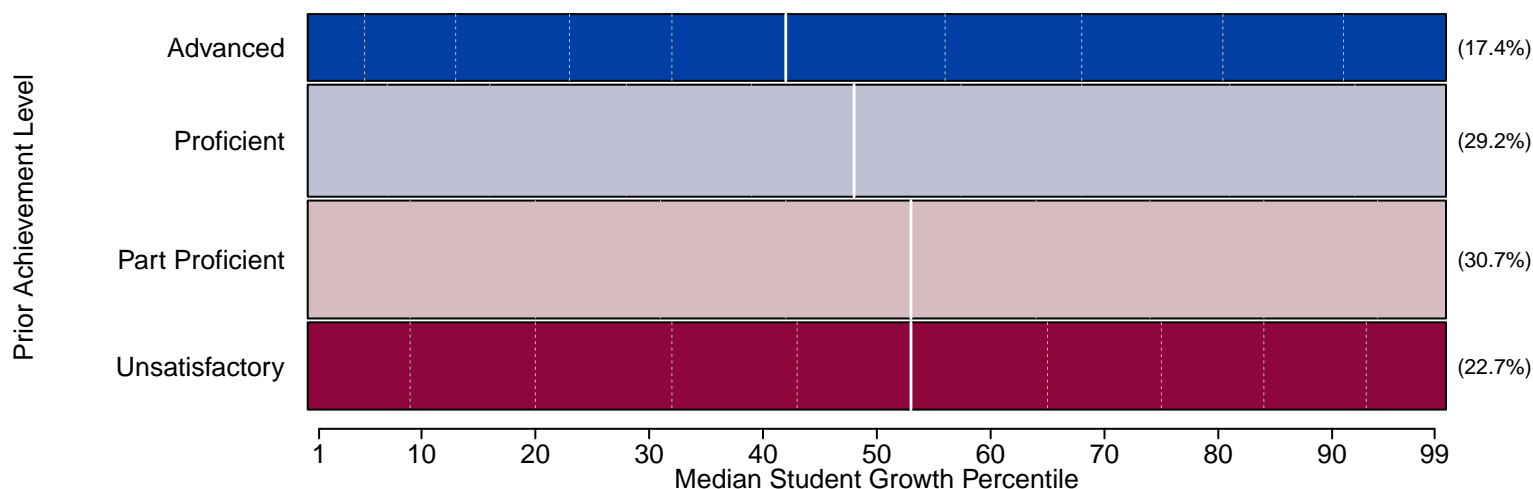# Student Growth Percentile Goodness–of–Fit Descriptives
2016–2017 Mathematics SGP SIMEX, Grade 10 (N = 4,250)

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: 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]	50.0	6.2	21.9	9.4	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	(370,404]	38.9	16.7	11.1	16.7	5.6	5.6	0.0	0.0	5.6	0.0	0.0	0.0	N = 18
Highest OSS:	[731,744]	3.8	0.0	0.0	3.8	7.7	3.8	15.4	3.8	7.7	26.9	11.5	15.4	N = 26
	[744,851]	0.0	0.0	0.0	0.0	0.0	0.0	7.4	7.4	18.5	22.2	14.8	29.6	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]	9.65	6.12	8.71	12.00	9.88	7.29	10.59	10.12	12.00	13.65	(10%)
2nd/[509,540]	10.84	10.34	7.64	8.13	11.08	7.64	9.85	8.62	12.56	13.30	(9.6%)
3rd/[540,563]	11.06	10.61	8.58	8.80	7.45	10.61	9.03	9.03	11.96	12.87	(10.4%)
4th/[563,580]	9.40	9.88	10.36	9.64	9.88	8.43	10.36	9.40	8.92	13.73	(9.8%)
5th/[580,596]	10.63	7.49	7.97	9.18	11.84	7.25	8.45	10.63	10.63	15.94	(9.7%)
6th/[596,612]	9.69	12.29	10.40	6.38	8.75	9.46	10.87	11.35	9.93	10.87	(10%)
7th/[612,628]	10.93	8.43	10.71	9.34	12.30	7.74	11.16	7.74	9.34	12.30	(10.3%)
8th/[628,646]	14.48	9.66	7.82	9.66	10.11	9.66	8.05	8.05	8.28	14.25	(10.2%)
9th/[646,671]	15.88	12.80	9.48	9.95	10.19	8.06	7.11	6.87	7.35	12.32	(9.9%)
10th/[671,868]	14.49	11.21	10.51	10.05	7.01	9.58	9.58	7.48	8.41	11.68	(10.1%)

*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