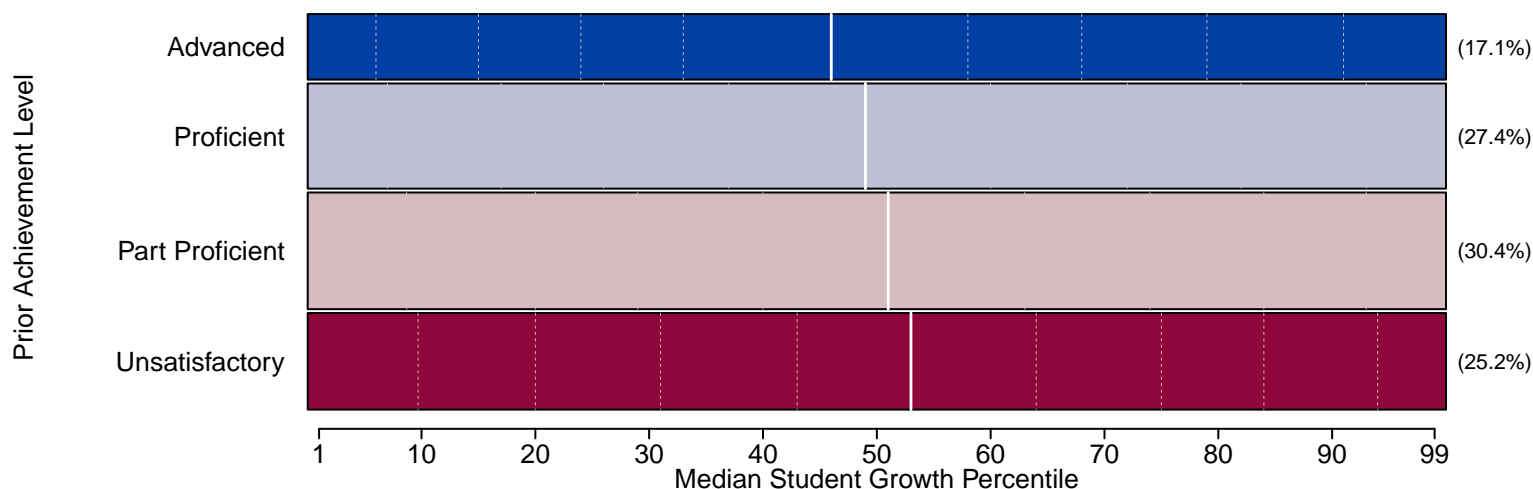# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016 Mathematics SGP SIMEX, Grade 10 (N = 4,206)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level:
- Advanced (17.1%)
- Proficient (27.4%)
- Part Proficient (30.4%)
- Unsatisfactory (25.2%)

Median Student Growth Percentile (x-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]	39.4	6.1	21.2	27.3	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
	(370,402]	22.2	0.0	33.3	16.7	5.6	11.1	5.6	5.6	0.0	0.0	0.0	0.0	N = 18
Highest OSS:	[733,754)	3.8	0.0	0.0	3.8	0.0	0.0	3.8	19.2	7.7	11.5	19.2	30.8	N = 26
	[754,814]	7.7	0.0	3.8	0.0	0.0	3.8	11.5	3.8	3.8	11.5	15.4	38.5	N = 26

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/[340,503)	7.91	10.31	10.79	9.11	11.03	8.87	9.11	7.91	11.27	13.67	(9.9%)
2nd/[503,536)	11.35	9.42	7.73	7.73	9.42	8.70	10.63	10.14	9.66	15.22	(9.8%)
3rd/[536,557)	9.95	8.96	9.95	8.46	9.20	9.70	8.46	7.46	11.94	15.92	(9.6%)
4th/[557,575)	11.40	7.36	9.74	9.50	8.55	8.55	9.98	10.45	9.74	14.73	(10%)
5th/[575,593)	8.72	11.19	10.29	9.17	8.72	8.50	10.29	9.40	10.74	12.98	(10.6%)
6th/[593,610)	12.17	12.17	10.74	9.31	8.83	8.59	7.16	9.55	10.02	11.46	(10%)
7th/[610,626)	12.29	9.09	7.86	11.06	10.07	7.86	8.85	12.04	8.85	12.04	(9.7%)
8th/[626,645)	15.69	9.37	9.84	8.43	4.22	10.30	9.37	6.79	9.37	16.63	(10.2%)
9th/[645,670)	15.69	8.67	8.20	10.07	9.13	8.90	9.60	11.71	7.03	11.01	(10.2%)
10th/[670,819]	13.65	11.76	9.18	10.82	8.24	9.41	8.47	8.71	7.29	12.47	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis: 0 to 100)
Empirical SGP Distribution (y-axis: 0 to 100)