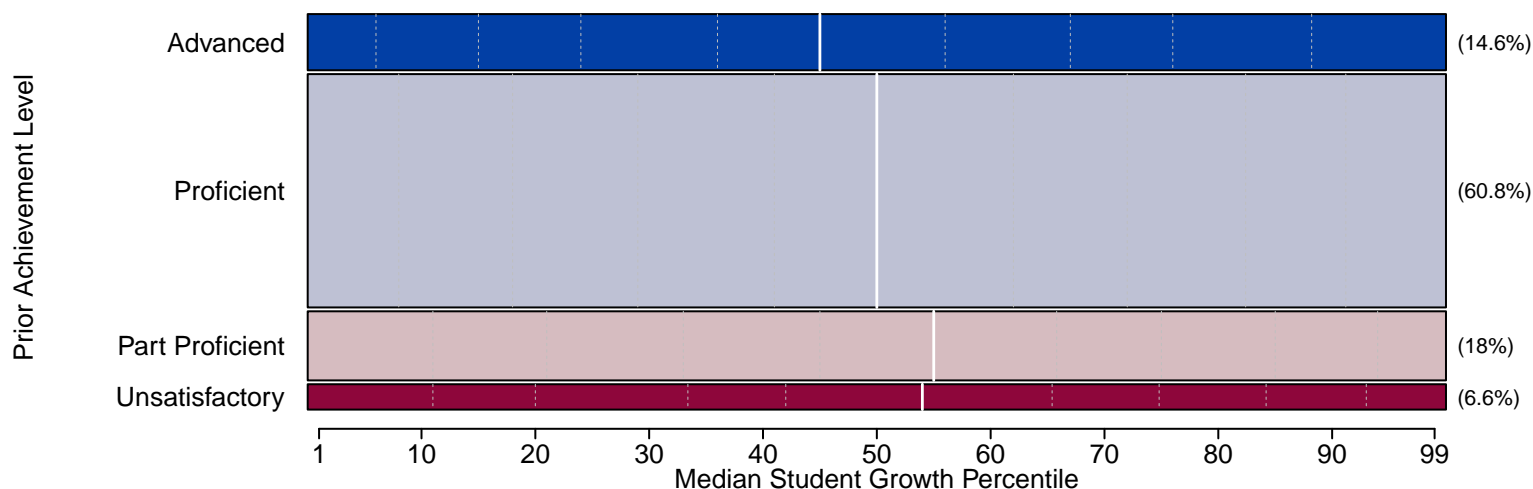# Student Growth Percentile Goodness–of–Fit Descriptives
2016–2017 Reading SGP SIMEX, Grade 7 (N = 4,162)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level (y-axis): Advanced (14.6%), Proficient (60.8%), Part Proficient (18%), Unsatisfactory (6.6%). X-axis: 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:	[300,436]	36.0	12.0	20.0	4.0	12.0	0.0	0.0	0.0	8.0	8.0	0.0	0.0	N = 25
	[436,477]	40.0	12.0	12.0	4.0	24.0	4.0	0.0	4.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[761,773]	0.0	4.2	0.0	0.0	4.2	0.0	25.0	8.3	12.5	8.3	37.5		N = 24
	[773,855]	0.0	3.6	3.6	0.0	0.0	0.0	0.0	3.6	10.7	17.9	10.7	50.0	N = 28

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/[260,561]	8.94	10.14	7.00	9.18	9.66	7.73	11.11	10.14	11.84	14.25	(9.9%)
2nd/[561,591]	8.87	10.07	9.59	8.15	7.91	11.75	9.59	10.31	10.55	13.19	(10%)
3rd/[591,611]	7.69	7.69	11.06	8.17	8.65	7.45	9.86	10.82	12.74	15.87	(10%)
4th/[611,627]	9.43	11.66	9.18	7.94	12.16	10.17	8.19	11.41	8.68	11.17	(9.7%)
5th/[627,641]	11.41	9.47	8.50	8.01	11.17	8.98	9.22	9.47	9.71	14.08	(9.9%)
6th/[641,655]	12.09	11.63	8.14	7.67	8.37	9.53	9.07	10.23	11.16	12.09	(10.3%)
7th/[655,669]	14.25	12.50	7.75	8.75	6.75	8.50	10.00	9.75	11.25	10.50	(9.6%)
8th/[669,685]	10.49	11.19	7.93	6.29	13.05	9.56	7.93	11.42	8.39	13.75	(10.3%)
9th/[685,708]	12.65	11.69	9.79	10.50	11.93	7.40	8.83	9.31	7.64	10.26	(10.1%)
10th/[708,837]	14.22	12.09	8.77	10.19	9.95	7.35	14.45	7.35	6.64	9.00	(10.1%)

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

QQ–Plot: Student Growth Percentiles

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