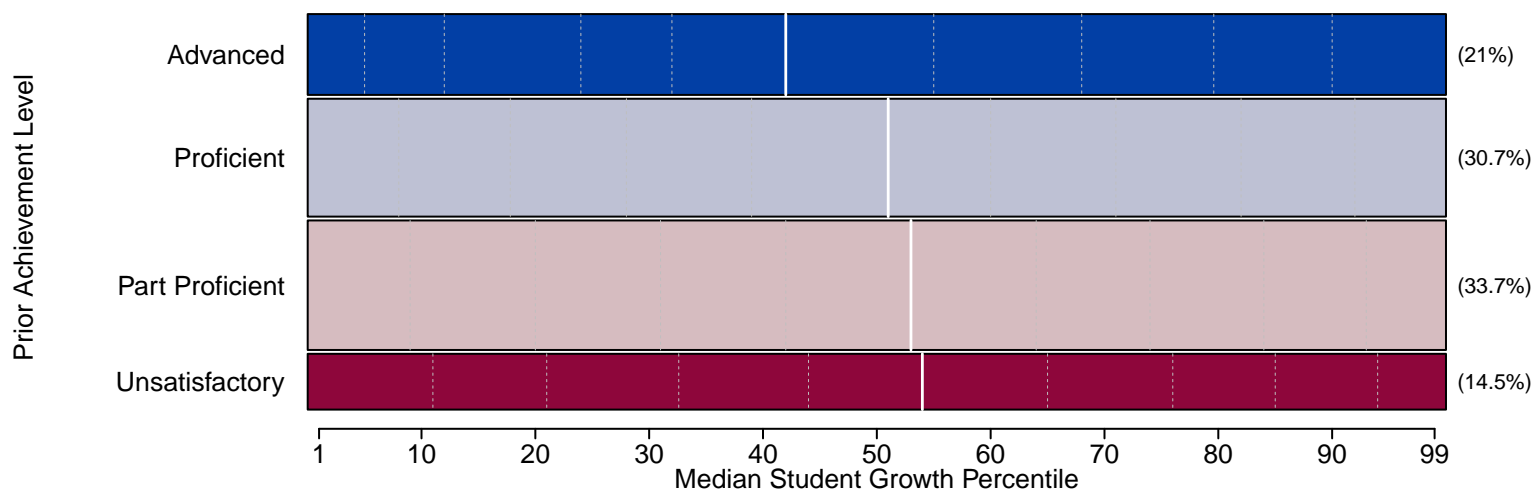# Student Growth Percentile Goodness–of–Fit Descriptives

2014–2015 Mathematics SGP SIMEX, Grade 8 (N = 4,219)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level:

- Advanced (21%)
- Proficient (30.7%)
- Part Proficient (33.7%)
- Unsatisfactory (14.5%)

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:	[310,385]	44.0	20.0	20.0	8.0	0.0	4.0	0.0	0.0	0.0	4.0	0.0	0.0	N = 25
	[385,416]	24.0	4.0	20.0	20.0	16.0	8.0	0.0	0.0	0.0	4.0	4.0	0.0	N = 25
Highest OSS:	[696,706]	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5	19.0	19.0	23.8	19.0	N = 21
	[706,791]	0.0	3.3	6.7	3.3	0.0	0.0	6.7	0.0	0.0	23.3	23.3	33.3	N = 30

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/[280,467]	7.99	10.41	7.99	8.72	11.14	8.96	11.38	9.44	9.20	14.77	(9.8%)
2nd/[467,502]	9.95	7.35	7.82	10.66	9.95	8.77	8.77	9.72	13.03	13.98	(10%)
3rd/[502,526]	9.98	8.08	10.69	7.84	8.55	10.93	10.69	9.74	10.21	13.30	(10%)
4th/[526,544]	12.27	8.10	9.03	9.95	10.42	7.87	9.95	6.48	10.88	15.05	(10.2%)
5th/[544,561]	10.67	10.17	9.93	9.18	6.95	9.43	9.68	8.19	10.92	14.89	(9.6%)
6th/[561,577]	12.32	9.00	9.48	8.77	8.77	9.72	7.82	10.43	12.09	11.61	(10%)
7th/[577,595]	11.87	10.96	9.13	7.31	7.08	11.64	9.13	10.73	8.68	13.47	(10.4%)
8th/[595,616]	14.56	11.46	9.55	8.83	7.64	10.02	10.98	8.83	8.59	9.55	(9.9%)
9th/[616,643]	12.88	12.41	10.30	9.37	8.20	8.67	6.79	8.90	9.37	13.11	(10.1%)
10th/[643,860]	15.88	11.85	9.48	12.80	6.64	11.37	6.16	7.58	10.19	8.06	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (0–100) vs. Empirical SGP Distribution (0–100)