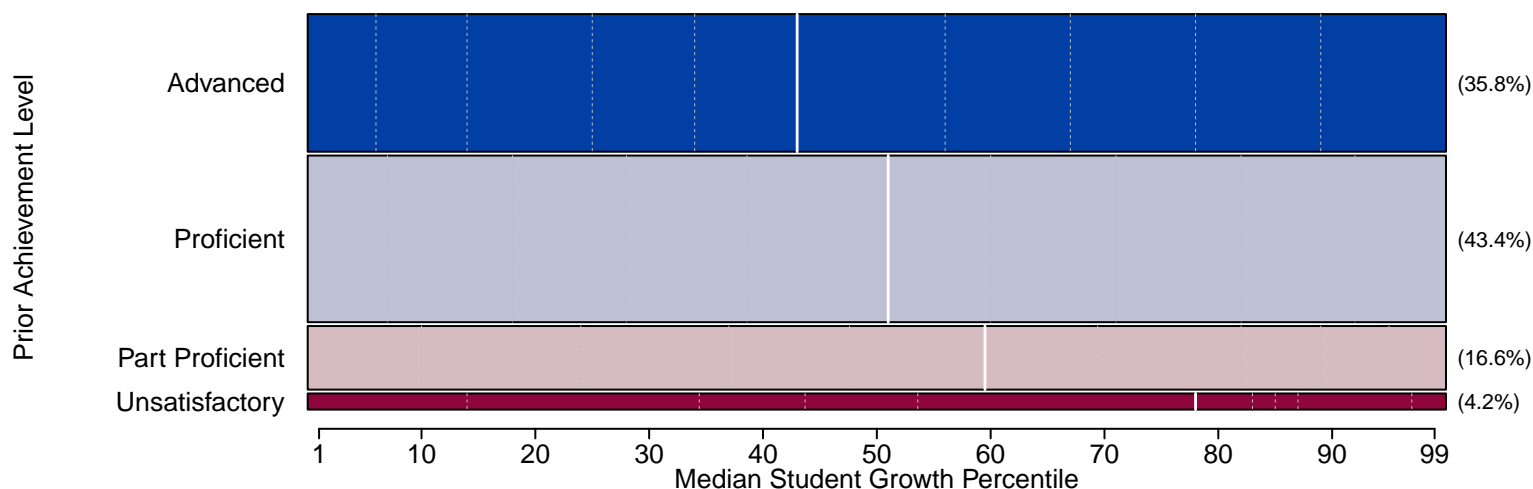# Student Growth Percentile Goodness–of–Fit Descriptives

2014–2015 Mathematics SGP SIMEX, Grade 4 (N = 4,045)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level:
- Advanced (35.8%)
- Proficient (43.4%)
- Part Proficient (16.6%)
- Unsatisfactory (4.2%)

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:	[213,300)	36.0	16.0	4.0	8.0	12.0	12.0	0.0	0.0	4.0	0.0	8.0	0.0	N = 25
	[300,325]	36.0	12.0	4.0	8.0	0.0	4.0	8.0	4.0	0.0	24.0	0.0	0.0	N = 25
Highest OSS:	[682,704)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	16.0	64.0		N = 25
	[704,780]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		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/[150,379)	7.96	6.72	7.21	5.22	11.94	6.47	6.72	8.96	19.90	18.91	(9.9%)
2nd/[379,417)	10.37	7.16	8.40	7.41	8.15	9.14	9.63	7.41	12.10	20.25	(10%)
3rd/[417,443)	10.50	10.00	8.75	8.50	7.25	12.75	11.25	5.50	11.25	14.25	(9.9%)
4th/[443,463)	12.34	8.31	9.57	10.58	9.07	8.06	8.82	8.82	10.58	13.85	(9.8%)
5th/[463,483)	9.62	10.34	12.02	6.97	8.65	9.38	9.13	10.82	10.58	12.50	(10.3%)
6th/[483,501)	14.68	9.11	10.89	8.10	8.35	9.62	9.11	10.13	7.59	12.41	(9.8%)
7th/[501,522)	15.09	9.73	10.46	9.73	8.52	11.19	7.30	7.30	10.95	9.73	(10.2%)
8th/[522,547)	12.53	12.04	8.85	11.30	7.62	8.60	10.32	9.34	8.85	10.57	(10.1%)
9th/[547,590)	13.07	10.80	9.80	11.31	7.79	11.31	9.05	8.29	9.80	8.79	(9.8%)
10th/[590,700]	17.87	8.94	12.80	10.87	6.04	8.70	9.18	8.70	8.94	7.97	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (0 to 100)
Empirical SGP Distribution (0 to 100)