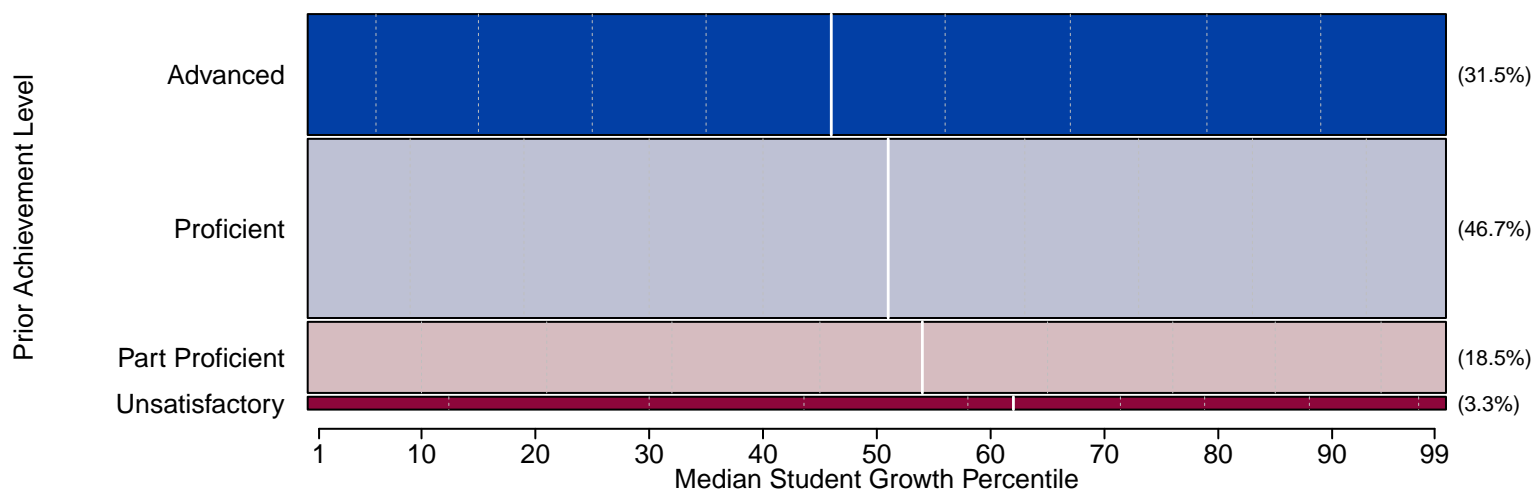# Student Growth Percentile Goodness–of–Fit Descriptives

2014–2015 Mathematics SGP SIMEX, Grade 5 (N = 4,040)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (y-axis):
- Advanced (31.5%)
- Proficient (46.7%)
- Part Proficient (18.5%)
- Unsatisfactory (3.3%)

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:	[220,342]	43.5	4.3	8.7	4.3	8.7	0.0	8.7	4.3	17.4	0.0	0.0	0.0	N = 23
	[342,368]	33.3	7.4	25.9	3.7	3.7	3.7	3.7	11.1	7.4	0.0	0.0	0.0	N = 27
Highest OSS:	[712,766]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	40.0	20.0	36.0	N = 25
	[766,800]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	19.2	73.1	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/[212,421]	6.95	9.18	6.95	7.94	6.45	10.17	11.91	11.91	11.91	16.63	(10%)
2nd/[421,450]	10.05	12.06	7.79	9.30	9.05	10.30	8.54	8.54	9.55	14.82	(9.9%)
3rd/[450,471]	8.88	7.61	9.39	10.15	9.90	10.41	7.36	12.44	9.14	14.72	(9.8%)
4th/[471,488]	10.22	8.48	8.23	9.48	9.48	7.98	9.23	9.48	11.97	15.46	(9.9%)
5th/[488,506]	11.82	12.29	8.27	8.75	8.98	7.80	9.22	10.64	9.69	12.53	(10.5%)
6th/[506,522]	10.94	8.40	9.41	10.69	10.69	8.14	10.43	8.14	11.70	11.45	(9.7%)
7th/[522,540]	11.11	11.11	9.85	10.35	7.83	9.34	9.34	10.10	10.61	10.35	(9.8%)
8th/[540,561]	15.88	12.41	8.44	7.69	10.67	10.67	6.70	6.45	9.43	11.66	(10%)
9th/[561,592]	14.83	8.13	10.05	8.61	8.61	10.05	9.81	11.00	9.09	9.81	(10.3%)
10th/[592,780]	12.65	12.17	9.00	6.81	11.92	12.17	8.03	9.98	9.00	8.27	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution (y-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100