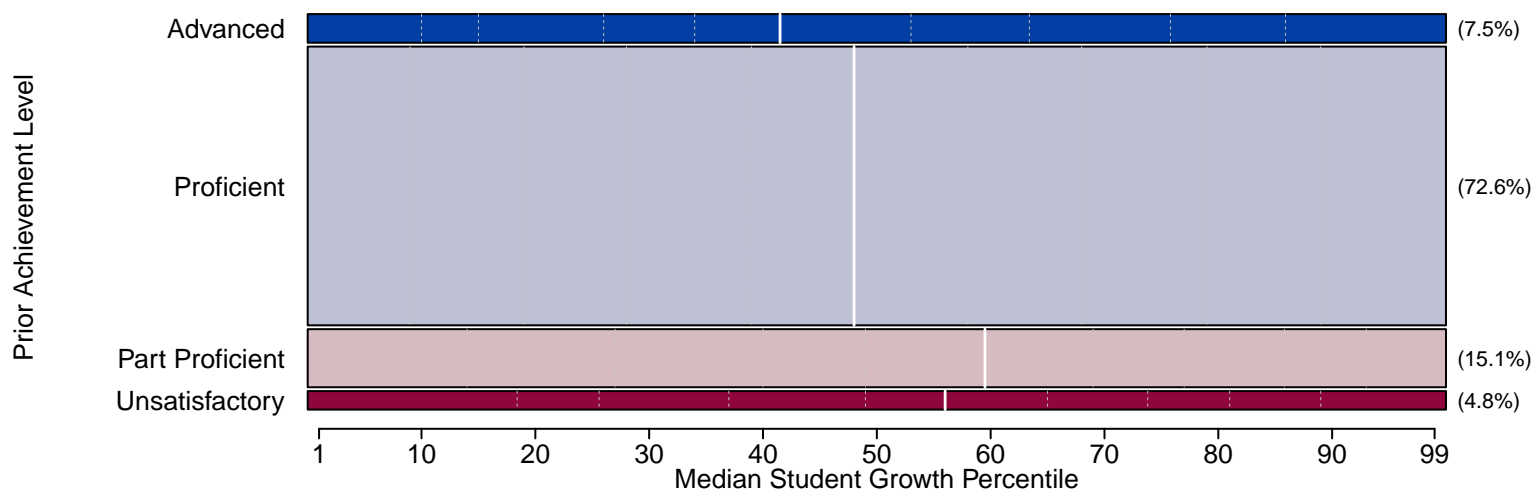# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Reading SGP SIMEX Ranked, Grade 4 (N = 4,046)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level:
- Advanced (7.5%)
- Proficient (72.6%)
- Part Proficient (15.1%)
- Unsatisfactory (4.8%)

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:	[180,410]	33.3	25.0	20.8	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[410,445]	29.6	7.4	3.7	29.6	22.2	0.0	7.4	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[713,728]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	16.0	20.0	12.0	40.0	N = 25
	[728,791]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	4.0	76.0	N = 25

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/[150,496)	6.02	6.02	9.77	11.03	6.77	11.78	11.28	12.53	11.78	13.03	(9.9%)
2nd/[496,526)	8.09	6.62	7.11	8.09	11.76	8.33	9.80	13.24	10.29	16.67	(10.1%)
3rd/[526,545)	7.09	10.63	10.38	9.37	9.11	12.15	8.86	8.61	10.38	13.42	(9.8%)
4th/[545,561)	7.37	8.85	9.58	10.07	9.58	9.09	9.83	10.57	13.27	11.79	(10.1%)
5th/[561,576)	9.52	9.27	9.77	9.52	10.03	9.77	11.53	9.52	9.77	11.28	(9.9%)
6th/[576,590)	9.02	11.22	11.71	11.95	6.34	13.17	8.29	8.78	10.49	9.02	(10.1%)
7th/[590,603)	10.28	11.31	8.23	11.57	9.25	8.48	12.60	11.83	7.71	8.74	(9.6%)
8th/[603,620)	13.29	10.49	13.05	8.62	12.12	8.16	7.93	8.62	8.39	9.32	(10.6%)
9th/[620,645)	15.05	11.48	10.46	6.89	13.27	8.67	10.97	8.16	7.40	7.65	(9.7%)
10th/[645,795)	8.61	14.11	10.05	12.92	11.48	10.05	9.33	9.09	8.85	5.50	(10.3%)

*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)