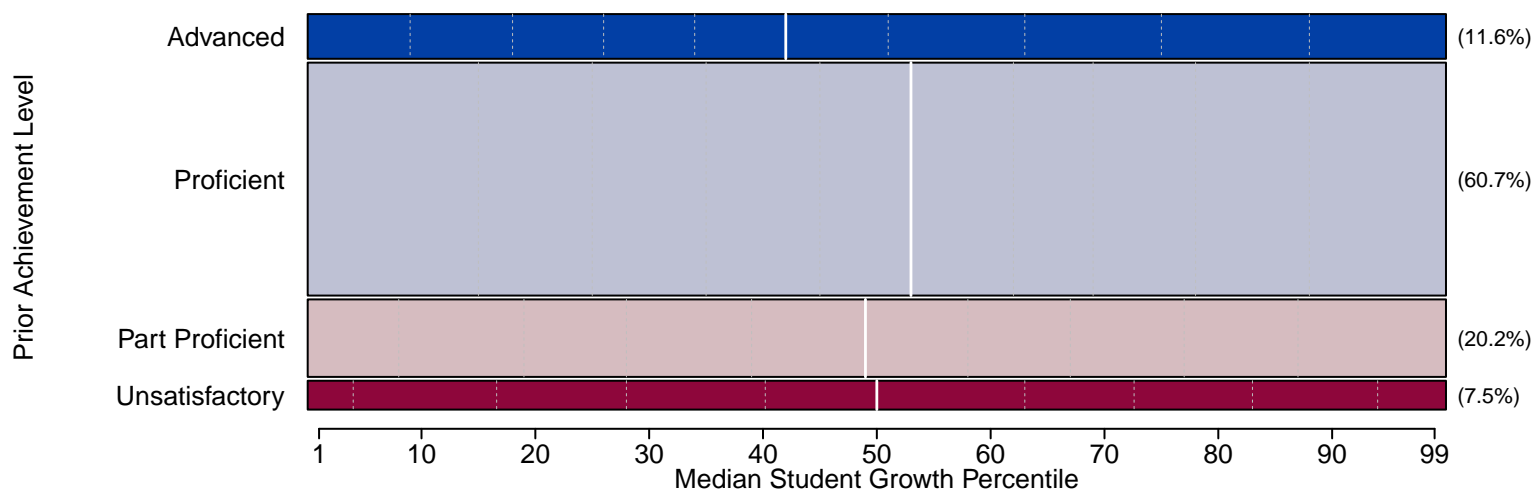# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Reading SGP OIs, Grade 8 (N = 4,113)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level (left axis):
- Advanced (11.6%)
- Proficient (60.7%)
- Part Proficient (20.2%)
- Unsatisfactory (7.5%)

X-axis: Median Student Growth Percentile (1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99)

Ceiling / Floor Effects Test

Current Observed Score Extremes (Range) × Student Growth Percentile Range

	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:	[330,500]	73.1	0.0	0.0	7.7	3.8	0.0	7.7	0.0	0.0	3.8	0.0	3.8	N = 26
	[500,522]	38.5	7.7	26.9	0.0	3.8	3.8	3.8	0.0	3.8	7.7	0.0	3.8	N = 26
Highest OSS:	[763,781]	0.0	4.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	32.0	20.0	32.0	N = 25
	[781,839]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.8	11.5	11.5	65.4	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/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/[300,578]	13.47	7.48	8.98	9.48	9.23	9.48	8.98	11.22	7.48	14.21	(9.7%)
2nd/[578,605]	13.40	11.00	9.81	9.09	10.29	10.05	9.57	9.57	10.29	6.94	(10.2%)
3rd/[605,624]	9.63	9.63	11.60	9.14	8.64	10.12	13.33	12.59	8.40	6.91	(9.8%)
4th/[624,638]	6.84	9.11	7.85	10.63	10.38	15.95	14.68	10.89	7.09	6.58	(9.6%)
5th/[638,651]	8.87	6.65	10.84	10.59	10.10	11.08	15.02	9.85	10.10	6.90	(9.9%)
6th/[651,665]	4.44	9.11	8.64	10.51	10.51	11.21	12.38	9.35	12.85	10.98	(10.4%)
7th/[665,680]	6.02	6.75	9.16	10.36	12.29	11.33	12.29	12.53	9.40	9.88	(10.1%)
8th/[680,698]	5.23	7.84	8.31	10.93	11.16	12.11	12.59	13.54	8.08	10.21	(10.2%)
9th/[698,720]	6.31	11.41	10.19	11.41	9.71	9.71	13.11	9.71	11.41	7.04	(10%)
10th/[720,863]	10.68	10.68	12.38	12.86	12.62	7.28	10.19	7.04	7.52	8.74	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (top axis: 0–100); Empirical SGP Distribution (left axis: 0–100)