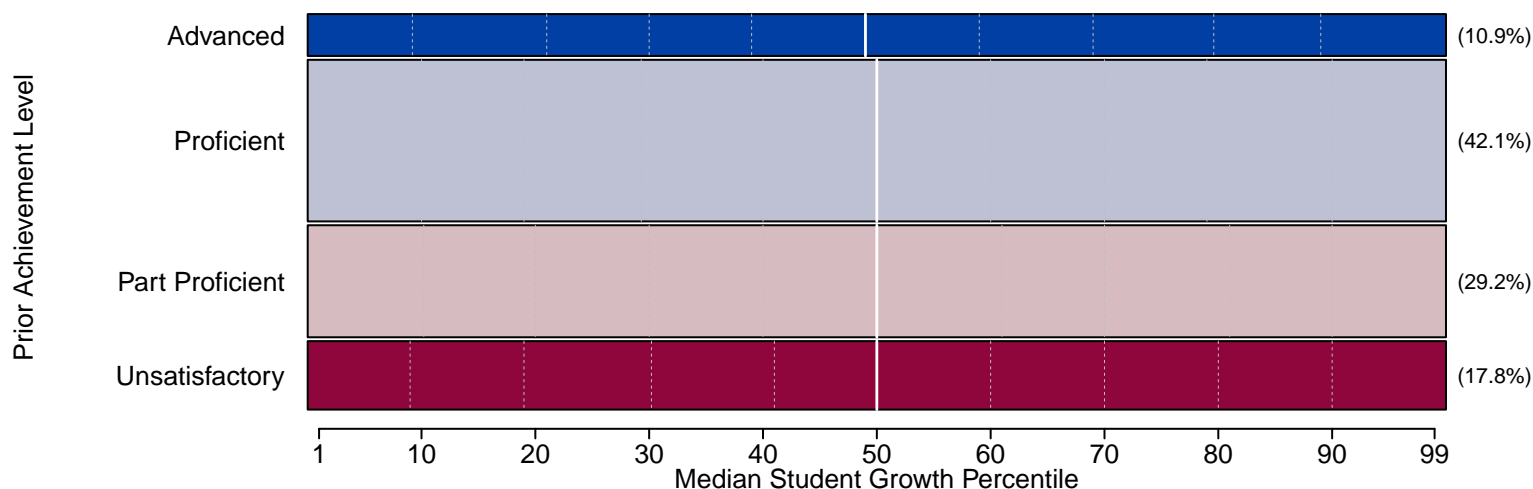# Student Growth Percentile Goodness–of–Fit Descriptives

2019 Mathematics SGP, Grade 8 (N = 5,803)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	
Advanced	(10.9%)
Proficient	(42.1%)
Part Proficient	(29.2%)
Unsatisfactory	(17.8%)

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

		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:	[380,422]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
	[422,426]	53.8	38.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 39
Highest OSS:	[608,622]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	30.4	30.4	30.4	N = 23
	[622,670]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	9.4	6.2	15.6	65.6	N = 32

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/[402,458]	11.22	10.20	9.59	10.00	10.41	10.41	9.80	8.57	10.00	9.80	(8.4%)
2nd/[458,474]	9.36	10.09	8.26	9.36	9.91	9.54	10.09	11.93	9.72	11.74	(9.4%)
3rd/[474,486]	8.68	10.81	11.24	10.24	10.10	10.95	8.96	9.82	9.53	9.67	(12.1%)
4th/[486,494]	10.02	9.65	9.47	10.20	11.29	8.01	10.56	8.74	12.20	9.84	(9.5%)
5th/[494,500]	9.07	8.62	12.02	8.62	7.03	9.98	11.34	10.88	9.52	12.93	(7.6%)
6th/[500,508]	9.83	11.54	6.71	12.01	8.89	11.23	9.52	11.39	9.83	9.05	(11%)
7th/[508,517]	9.81	7.91	10.13	9.34	11.08	9.02	8.54	11.87	9.97	12.34	(10.9%)
8th/[517,528]	9.64	11.19	11.36	9.29	9.47	10.50	10.15	7.57	11.02	9.81	(10%)
9th/[528,545]	10.03	11.22	11.05	9.01	10.20	9.18	9.52	12.07	7.48	10.20	(10.1%)
10th/[545,663]	10.11	9.48	9.64	11.53	9.32	10.43	9.95	9.48	10.11	9.95	(10.9%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution