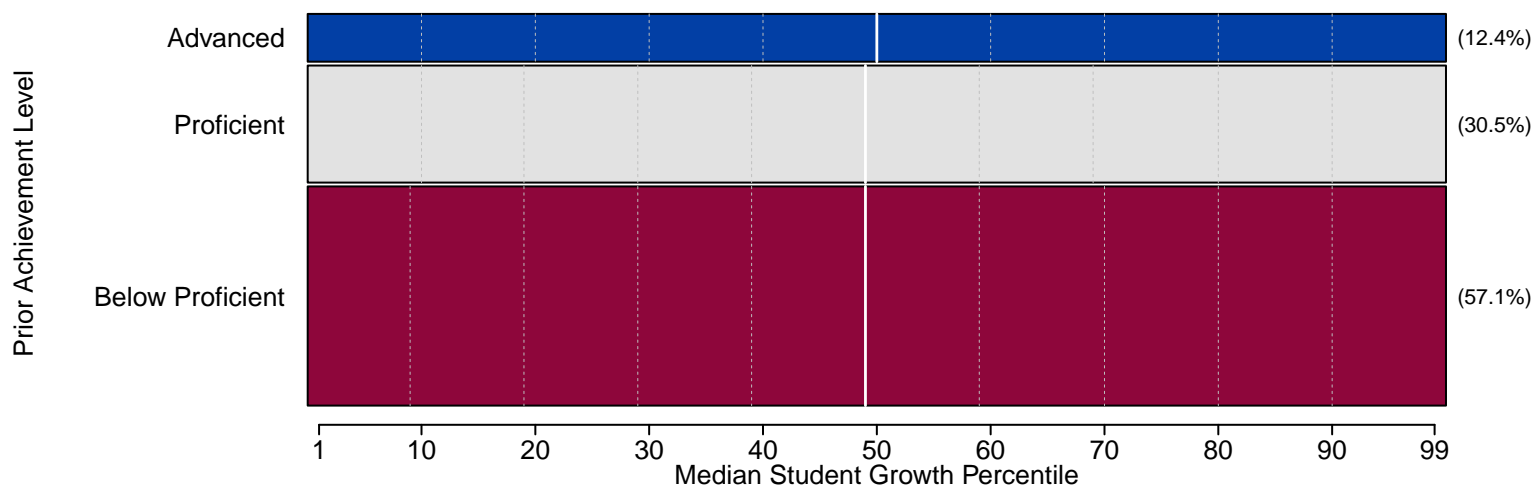# Student Growth Percentile Goodness–of–Fit Descriptives

2015 Mathematics SGP, Grade 8 (N = 39,300)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level

	Median Student Growth Percentile
Advanced	(12.4%)
Proficient	(30.5%)
Below Proficient	(57.1%)

Median Student Growth Percentile: 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:	[215]	95.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 88
Highest OSS:	[652,664)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	12.0	20.0	24.0	40.0	N = 25
	[664,732]	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	11.5	7.7	11.5	65.4	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/[228,364)	10.46	9.87	9.87	10.44	10.23	10.12	10.05	9.66	9.27	10.05	(9.8%)
2nd/[364,391)	9.95	10.60	9.59	10.34	9.82	9.95	9.75	9.62	10.06	10.32	(9.8%)
3rd/[391,410)	9.73	10.11	11.10	10.06	10.09	9.73	9.35	9.91	9.30	10.62	(10.1%)
4th/[410,426)	9.78	10.55	9.53	10.05	10.02	10.02	9.68	10.07	9.88	10.42	(10.2%)
5th/[426,440)	11.03	10.31	10.10	9.69	9.77	9.38	9.89	10.23	9.48	10.13	(9.9%)
6th/[440,453)	10.09	10.04	9.66	10.28	9.36	9.85	9.77	9.88	10.50	10.58	(9.5%)
7th/[453,468)	9.51	10.06	10.28	9.65	10.33	10.13	9.99	9.75	9.77	10.52	(10.6%)
8th/[468,484)	10.37	9.84	10.22	10.04	9.73	10.12	9.96	9.91	9.79	10.02	(10%)
9th/[484,505)	9.88	10.11	9.63	10.19	10.11	10.06	10.24	9.43	9.88	10.46	(10.2%)
10th/[505,647]	9.59	9.79	10.12	10.09	9.97	10.20	9.59	10.50	10.04	10.12	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (0–100) vs Empirical SGP Distribution (0–100)