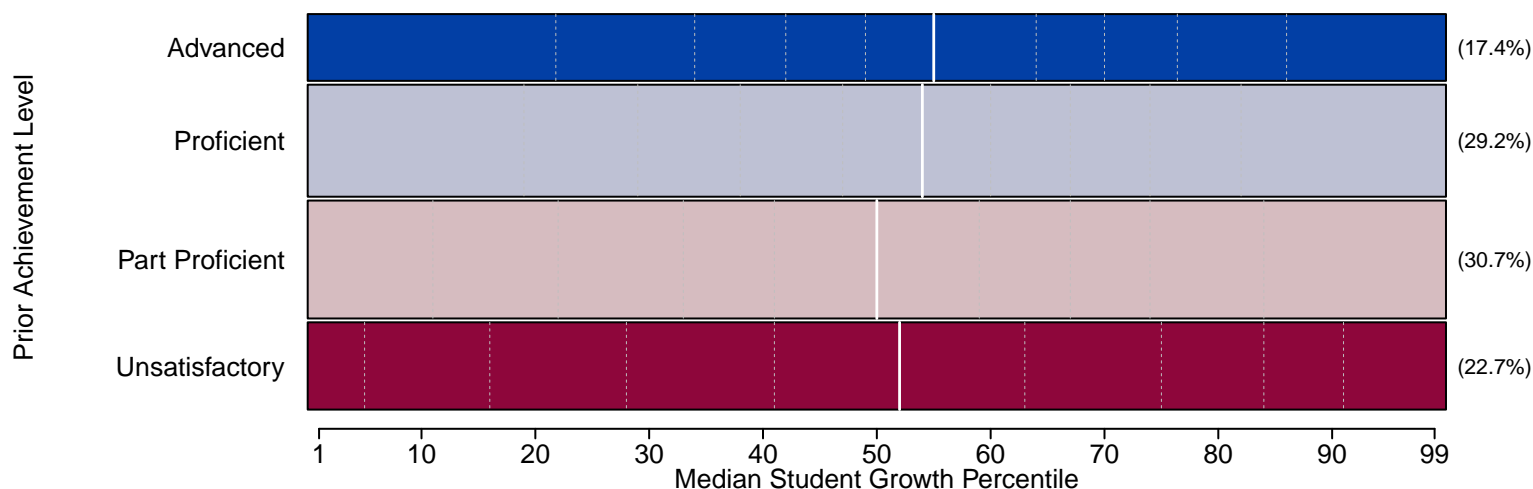# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Mathematics SGP OIs, Grade 10 (N = 4,250)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	Median Student Growth Percentile	
Advanced		(17.4%)
Proficient		(29.2%)
Part Proficient		(30.7%)
Unsatisfactory		(22.7%)

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:	[370]	65.6	12.5	3.1	3.1	0.0	3.1	0.0	12.5	0.0	0.0	0.0	0.0	N = 32
	(370,404]	66.7	16.7	11.1	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	N = 18
Highest OSS:	[731,744]	7.7	0.0	0.0	3.8	0.0	3.8	3.8	19.2	15.4	23.1	15.4	7.7	N = 26
	[744,851]	3.7	0.0	0.0	0.0	0.0	3.7	3.7	11.1	7.4	25.9	18.5	25.9	N = 27

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/[340,509)	15.06	8.00	7.76	6.35	8.47	7.06	8.94	6.82	13.18	18.35	(10%)
2nd/[509,540)	13.05	8.87	9.11	7.39	9.11	10.59	11.08	8.87	14.53	7.39	(9.6%)
3rd/[540,563)	12.64	7.90	8.35	9.26	12.19	10.84	11.51	12.19	9.48	5.64	(10.4%)
4th/[563,580)	9.64	9.64	11.08	9.64	11.08	11.57	11.81	11.33	9.16	5.06	(9.8%)
5th/[580,596)	8.45	6.52	8.70	12.80	11.11	10.39	12.80	14.01	9.90	5.31	(9.7%)
6th/[596,612)	6.62	7.09	12.77	8.75	11.82	14.89	16.78	8.75	8.04	4.49	(10%)
7th/[612,628)	5.24	7.06	7.52	11.85	13.44	13.21	15.49	12.98	9.34	3.87	(10.3%)
8th/[628,646)	3.68	6.90	8.05	10.34	11.72	15.17	15.86	13.10	10.57	4.60	(10.2%)
9th/[646,671)	1.90	5.45	7.35	12.09	13.27	13.51	15.64	15.64	10.19	4.98	(9.9%)
10th/[671,868)	3.50	5.84	6.78	10.98	14.72	15.89	13.32	13.08	9.35	6.54	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution