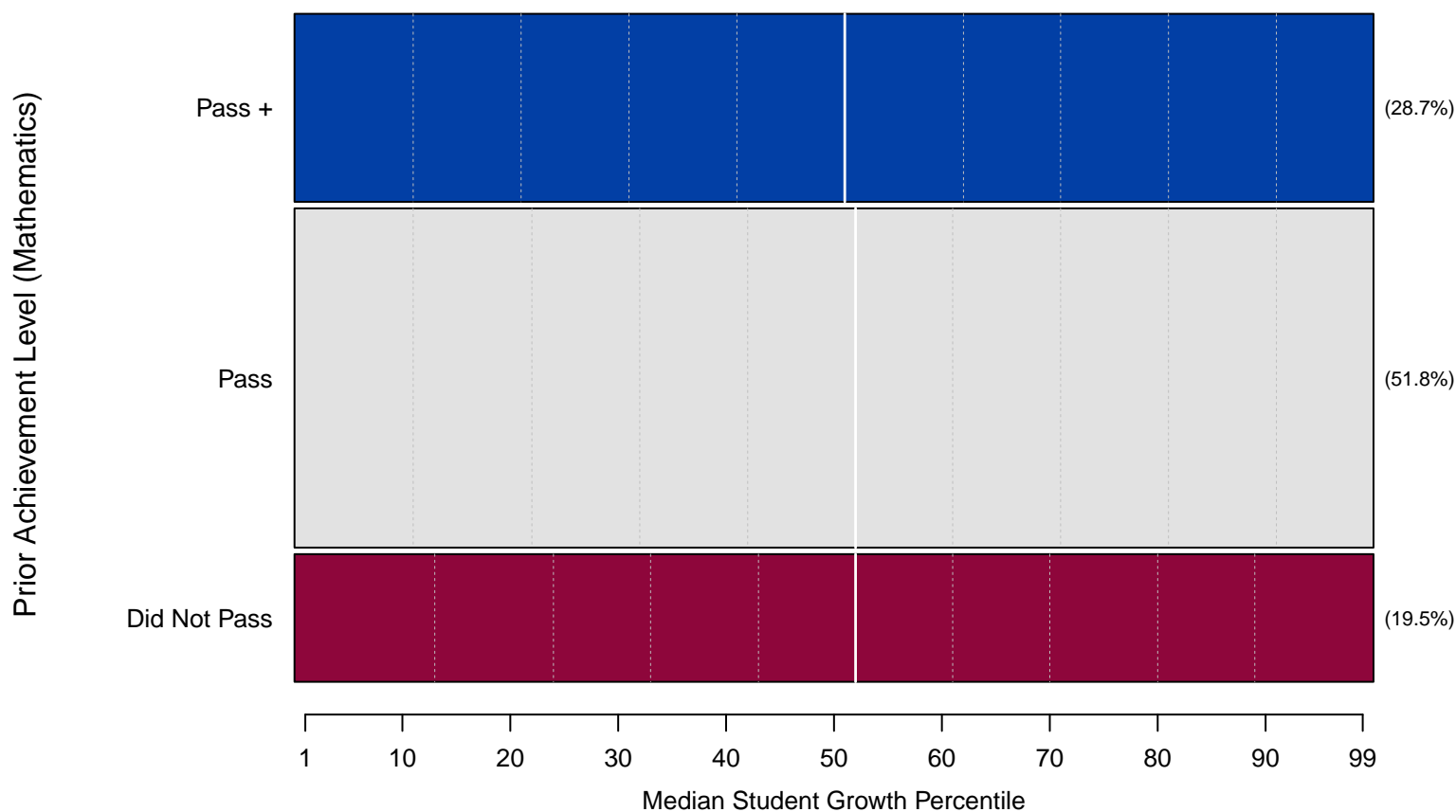# Student Growth Percentile Goodness–of–Fit Descriptives

2013 Mathematics SGP, Grade 8 (N = 75,945)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Level	Percentage
Pass +	(28.7%)
Pass	(51.8%)
Did Not Pass	(19.5%)

Median Student Growth Percentile: 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99

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/[315,481]	6.39	8.85	9.11	10.19	10.58	10.90	12.48	10.81	10.88	9.79	(9.8%)
2nd/[481,512]	7.32	9.65	10.31	11.18	11.55	10.70	10.47	9.44	9.70	9.66	(10.1%)
3rd/[512,532]	7.60	10.23	10.35	10.84	10.81	10.69	10.20	10.10	9.74	9.45	(9.9%)
4th/[532,548]	8.08	9.78	9.95	10.28	10.54	10.43	10.41	10.27	9.24	11.01	(9.5%)
5th/[548,565]	8.45	9.54	9.64	9.49	9.91	10.18	9.92	10.32	10.73	11.83	(10.3%)
6th/[565,582]	8.43	9.60	9.23	9.71	9.82	10.28	9.37	10.69	10.60	12.26	(10.1%)
7th/[582,600]	8.54	9.08	9.48	10.03	9.82	10.03	10.42	9.78	10.38	12.44	(9.9%)
8th/[600,621]	7.67	9.63	9.56	9.77	9.76	10.12	10.12	11.18	10.49	11.70	(10%)
9th/[621,652]	8.04	10.09	9.65	10.27	10.03	10.35	9.69	10.45	9.82	11.61	(10.2%)
10th/[652,810]	9.13	10.26	10.45	10.08	10.03	8.98	9.88	9.21	9.55	12.42	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution