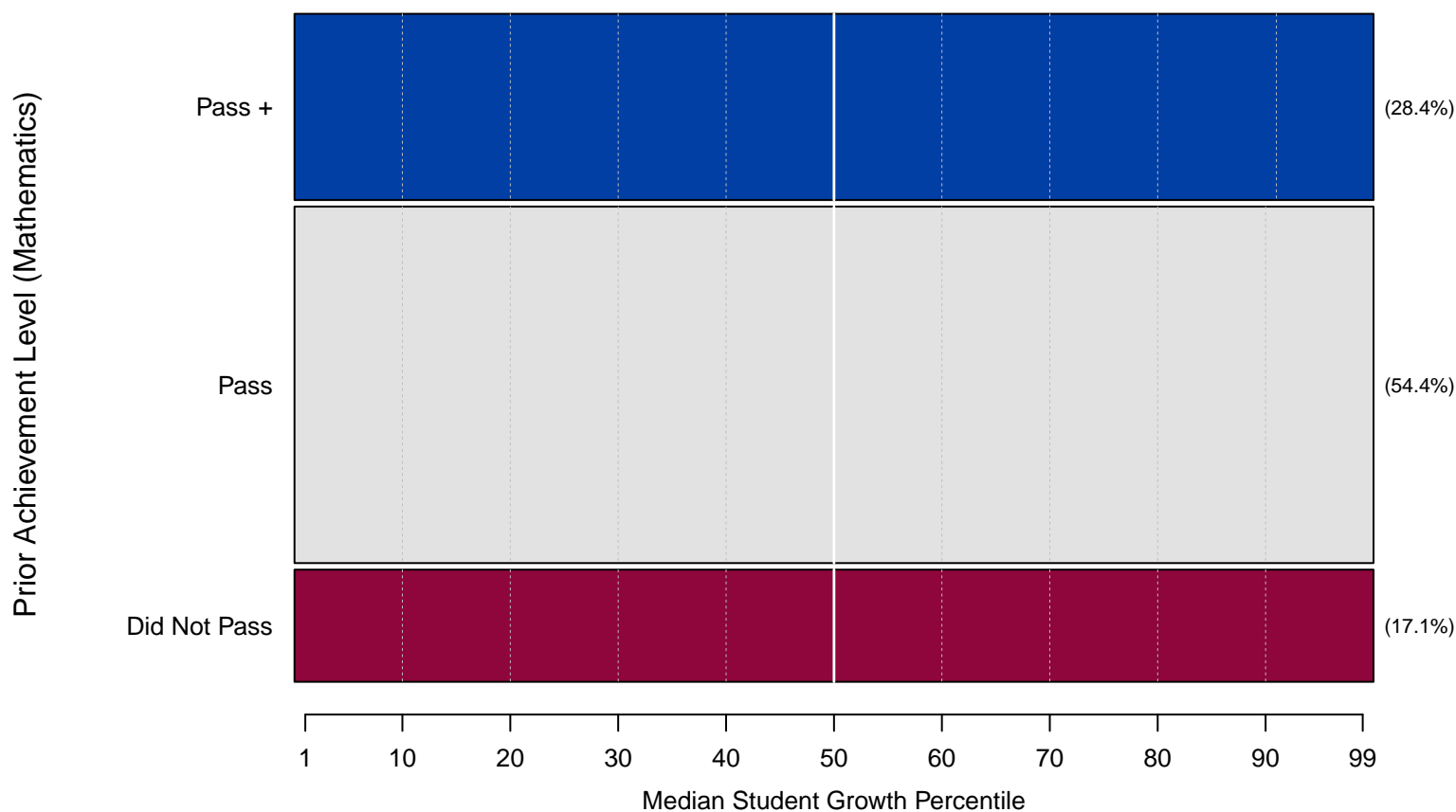# Student Growth Percentile Goodness–of–Fit Descriptives
2013 Mathematics SGP, Grade 4 (N = 74,019)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Level	Percentage
Pass +	(28.4%)
Pass	(54.4%)
Did Not Pass	(17.1%)

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/[140,389)	9.64	9.89	9.93	10.18	9.75	10.19	10.10	9.95	10.10	10.26	(9.8%)
2nd/[389,419)	9.26	10.21	9.94	9.89	10.14	9.77	9.88	10.18	9.96	10.76	(9.8%)
3rd/[419,441)	9.66	10.32	10.34	9.43	10.30	9.86	9.87	9.83	10.11	10.30	(10.1%)
4th/[441,459)	9.53	9.75	9.92	10.38	9.66	10.26	10.32	10.27	9.56	10.35	(9.9%)
5th/[459,476)	9.67	9.39	9.71	10.38	10.18	9.84	9.94	9.62	10.23	11.04	(10.1%)
6th/[476,492)	9.43	10.11	10.10	9.75	9.90	10.10	9.87	10.04	10.22	10.48	(9.8%)
7th/[492,510)	9.22	10.19	10.14	9.74	9.99	10.11	10.10	10.35	9.79	10.38	(10.5%)
8th/[510,530)	9.39	10.37	10.25	10.40	10.21	9.95	9.91	9.44	9.84	10.25	(9.9%)
9th/[530,561)	9.78	9.97	9.85	10.00	10.15	9.58	9.74	10.58	10.03	10.32	(10%)
10th/[561,735]	9.51	9.80	9.92	9.92	9.68	10.25	10.32	9.30	8.11	13.20	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100