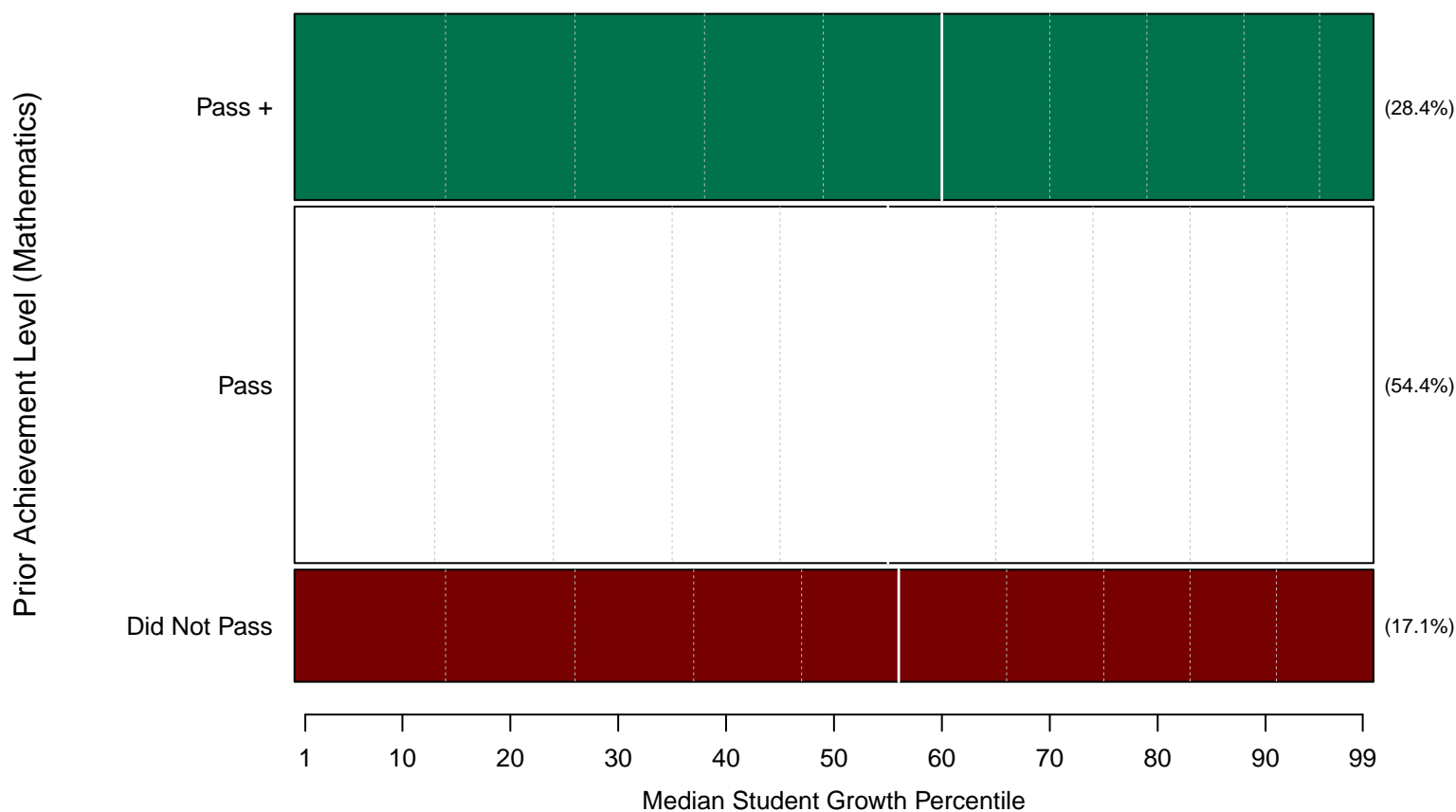# Student Growth Percentile Goodness–of–Fit Descriptives
2013 Mathematics SGP, Grade 4 (N = 74,019)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Pass + (28.4%)
- Pass (54.4%)
- Did Not Pass (17.1%)

Median Student Growth Percentile

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)	6.31	7.65	8.86	9.89	10.22	10.17	11.53	11.61	12.54	11.23	(9.8%)
2nd/[389,419)	6.43	8.40	9.01	9.58	10.10	10.79	10.47	11.25	12.03	11.94	(9.8%)
3rd/[419,441)	7.25	9.62	9.10	9.54	10.36	10.56	10.94	10.14	11.05	11.45	(10.1%)
4th/[441,459)	7.40	9.53	8.90	9.70	10.27	10.47	10.94	10.43	10.94	11.43	(9.9%)
5th/[459,476)	7.74	8.06	9.16	9.43	10.64	9.90	10.46	10.22	11.38	13.03	(10.1%)
6th/[476,492)	7.13	8.39	9.31	9.26	9.32	10.18	10.40	10.80	11.91	13.29	(9.8%)
7th/[492,510)	6.74	8.06	9.08	9.07	9.35	9.41	10.95	11.09	11.40	14.85	(10.5%)
8th/[510,530)	6.56	8.40	8.71	8.89	9.83	9.40	10.41	11.01	10.48	16.32	(9.9%)
9th/[530,561)	6.75	8.17	8.10	8.46	9.31	9.22	9.46	11.00	11.59	17.95	(10%)
10th/[561,735]	6.30	7.76	8.54	7.91	8.93	8.78	9.53	10.49	11.93	19.85	(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