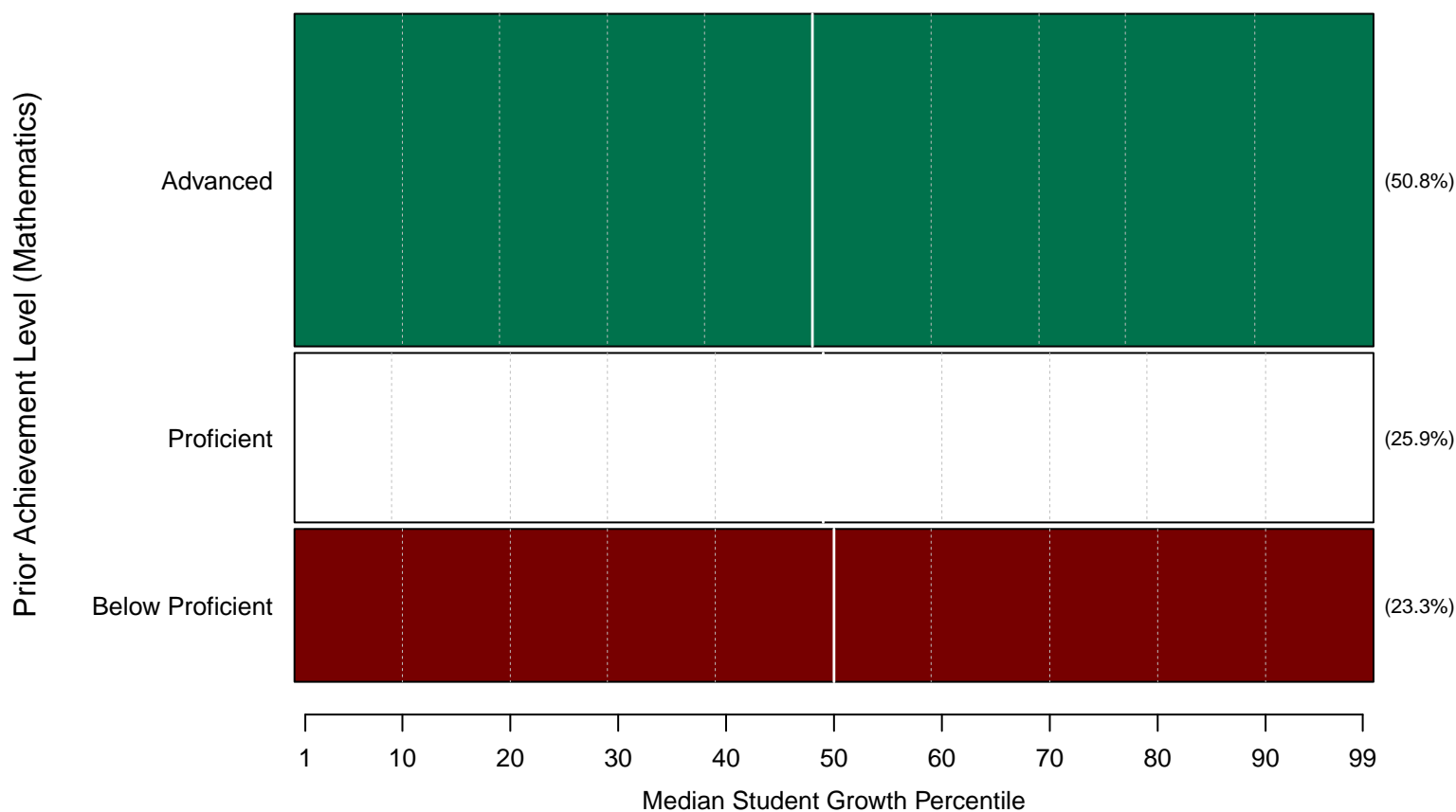# Student Growth Percentile Goodness–of–Fit Descriptives

2013 Mathematics SGP, Grade 4 (N = 44,823)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (50.8%)
- Proficient (25.9%)
- Below Proficient (23.3%)

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/[130,152)	9.88	10.63	10.04	9.90	10.12	10.68	9.01	10.09	9.50	10.14	(9.5%)
2nd/[152,158)	9.23	9.65	10.70	9.10	10.42	9.40	10.82	8.68	11.42	10.57	(9%)
3rd/[158,162)	10.61	8.68	11.19	11.99	8.32	10.14	10.50	10.73	7.92	9.91	(10.6%)
4th/[162,164)	8.78	11.73	11.09	6.33	14.08	7.81	11.25	7.91	10.48	10.54	(6.9%)
5th/[164,168)	9.97	9.50	9.53	11.46	9.55	9.53	8.28	12.12	9.58	10.46	(13.2%)
6th/[168,171)	8.57	12.22	11.08	6.19	8.24	10.38	14.51	7.61	10.06	11.14	(10.3%)
7th/[171,173)	8.97	9.95	9.75	12.21	8.00	15.10	8.78	9.01	7.88	10.34	(5.7%)
8th/[173,177)	10.50	9.76	7.45	13.30	11.99	10.06	5.43	9.84	12.71	8.95	(11.8%)
9th/[177,183)	9.33	10.79	12.28	8.88	11.32	6.03	11.92	12.68	5.76	11.00	(11.8%)
10th/[183,199]	9.86	14.18	9.38	10.28	9.04	7.68	11.50	8.80	11.08	8.20	(11.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution