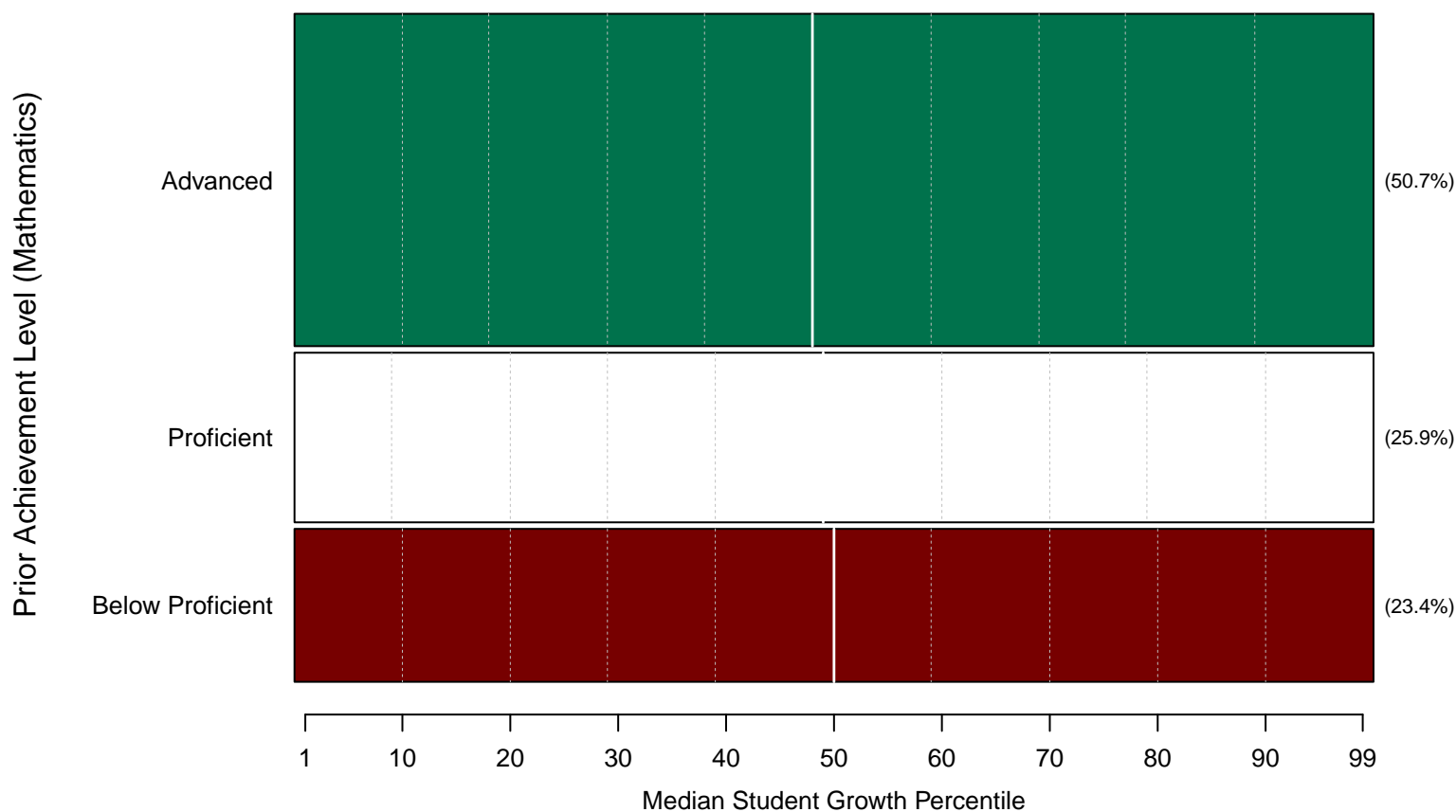# Student Growth Percentile Goodness–of–Fit Descriptives
2013 Mathematics SGP, Grade 4 (N = 44,726)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (50.7%)
- Proficient (25.9%)
- Below Proficient (23.4%)

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)	9.84	10.88	9.77	9.91	10.12	10.69	9.02	10.10	9.58	10.08	(9.5%)
2nd/[152,158)	9.22	9.64	10.69	9.12	10.42	9.42	10.84	8.65	11.41	10.59	(9%)
3rd/[158,162)	10.62	8.69	11.18	11.98	8.31	10.16	10.49	10.74	7.26	10.57	(10.7%)
4th/[162,164)	8.73	11.76	11.09	6.32	14.08	7.80	11.28	7.90	10.51	10.54	(6.9%)
5th/[164,168)	9.98	9.51	9.54	11.44	9.56	9.53	8.29	12.12	9.59	10.44	(13.2%)
6th/[168,171)	8.58	12.24	11.07	6.20	8.23	10.40	14.51	7.60	10.05	11.11	(10.3%)
7th/[171,173)	8.97	9.95	9.79	12.22	8.03	15.12	8.62	9.05	7.91	10.34	(5.7%)
8th/[173,177)	10.50	9.76	7.44	13.31	11.98	10.06	5.45	9.83	12.70	8.98	(11.8%)
9th/[177,183)	9.34	10.80	12.31	8.88	11.31	6.00	11.93	12.65	5.74	11.02	(11.8%)
10th/[183,199]	9.90	11.87	11.72	10.28	9.01	7.59	11.54	8.81	11.08	8.19	(11.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution