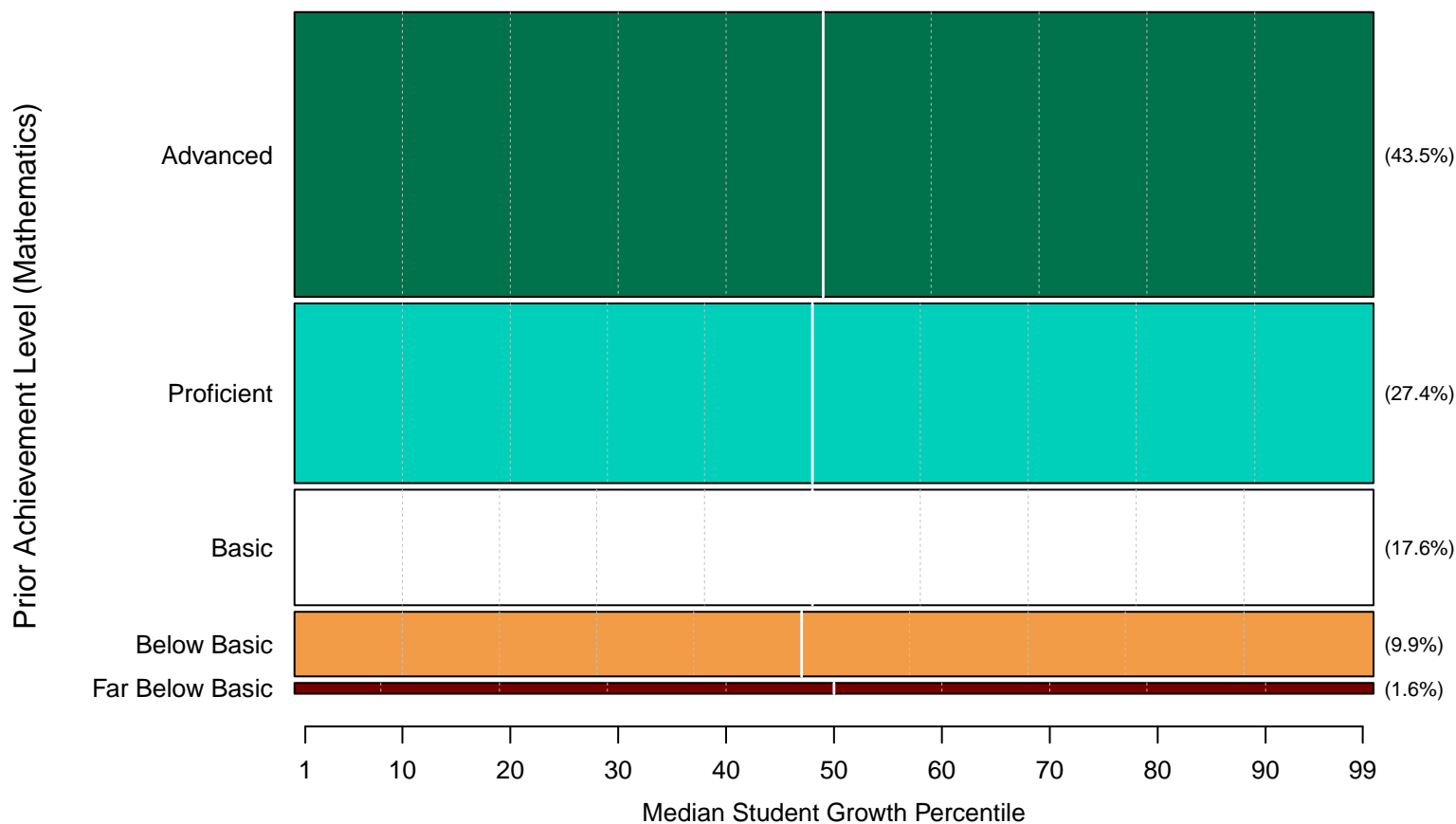# Student Growth Percentile Goodness–of–Fit Descriptives

2013 Mathematics SGP, Grade 4 (N = 41,105)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (43.5%)
- Proficient (27.4%)
- Basic (17.6%)
- Below Basic (9.9%)
- Far Below Basic (1.6%)

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/[153,292)	10.63	10.11	10.71	10.76	10.29	9.38	9.51	10.16	9.12	9.33	(9.3%)
2nd/[292,325)	9.20	10.73	10.52	10.06	9.85	10.19	10.37	10.60	9.69	8.79	(9.4%)
3rd/[325,351)	10.42	10.21	10.68	10.45	10.40	10.12	9.91	10.24	8.95	8.62	(10.4%)
4th/[351,375)	9.57	10.64	10.68	10.31	10.66	10.22	10.13	9.57	8.92	9.31	(10.5%)
5th/[375,397)	8.59	10.68	10.70	10.90	10.32	9.83	9.81	9.99	9.32	9.86	(9.5%)
6th/[397,415)	9.25	9.97	10.93	10.40	9.81	10.86	9.64	9.91	10.01	9.22	(7.4%)
7th/[415,450)	9.32	9.97	10.16	10.02	10.99	10.25	10.54	9.19	9.49	10.08	(12.8%)
8th/[450,486)	9.31	10.40	10.77	10.63	10.11	10.40	9.26	10.35	9.62	9.15	(10.3%)
9th/[486,514)	9.59	9.95	10.66	9.28	11.69	9.46	9.05	10.26	10.62	9.46	(5.5%)
10th/[514,600]	9.51	10.30	10.00	10.02	10.00	8.90	11.87	9.76	11.20	8.45	(14.9%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution