Student Growth Percentile Goodness–of–Fit Descriptives
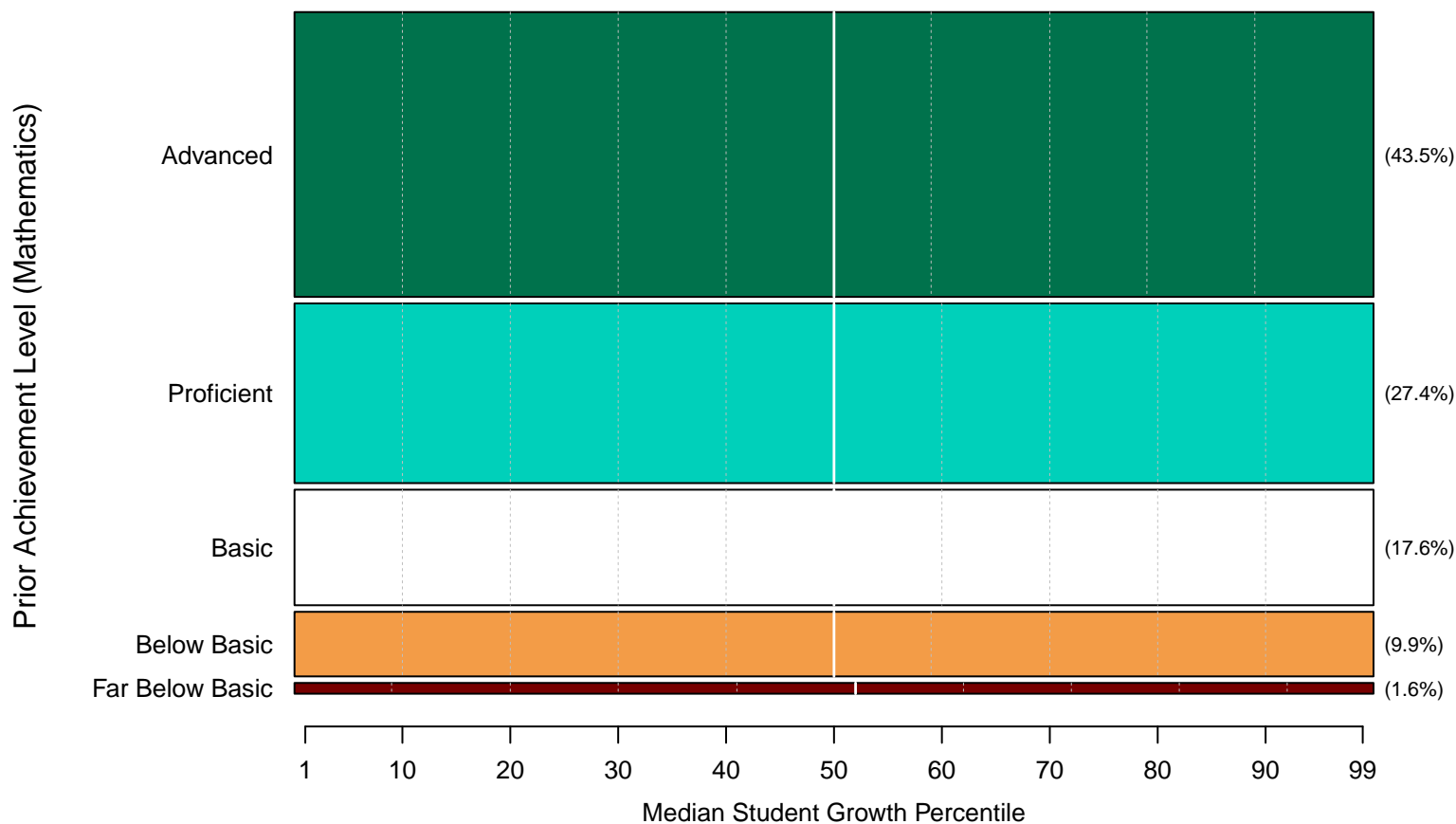## 2013 Mathematics SGP, Grade 4 (N = 41,105)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

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

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/[153,292)	9.80	9.61	10.11	10.29	9.90	9.80	9.90	9.80	9.98	10.82	(9.3%)
2nd/[292,325)	8.92	10.03	9.82	9.85	9.67	10.06	10.26	10.42	10.29	10.68	(9.4%)
3rd/[325,351)	9.84	9.70	10.05	9.98	10.21	10.14	10.00	9.82	9.86	10.40	(10.4%)
4th/[351,375)	9.50	10.10	9.92	10.15	10.26	9.92	9.99	9.73	9.92	10.52	(10.5%)
5th/[375,397)	8.79	10.14	10.27	10.60	9.66	9.89	9.83	9.96	9.99	10.88	(9.5%)
6th/[397,415)	9.74	9.68	10.30	9.68	9.61	10.76	9.55	10.57	10.20	9.91	(7.4%)
7th/[415,450)	9.72	10.04	9.43	9.66	10.71	9.40	10.67	9.55	10.21	10.61	(12.8%)
8th/[450,486)	9.50	10.09	10.42	10.37	9.38	10.28	9.36	10.82	9.48	10.30	(10.3%)
9th/[486,514)	9.72	9.41	9.81	10.53	9.81	10.08	9.77	10.39	10.70	9.77	(5.5%)
10th/[514,600]	9.48	10.28	10.25	10.28	10.17	10.89	9.36	10.03	10.15	9.12	(14.9%)

*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