Student Growth Percentile Goodness–of–Fit Descriptives
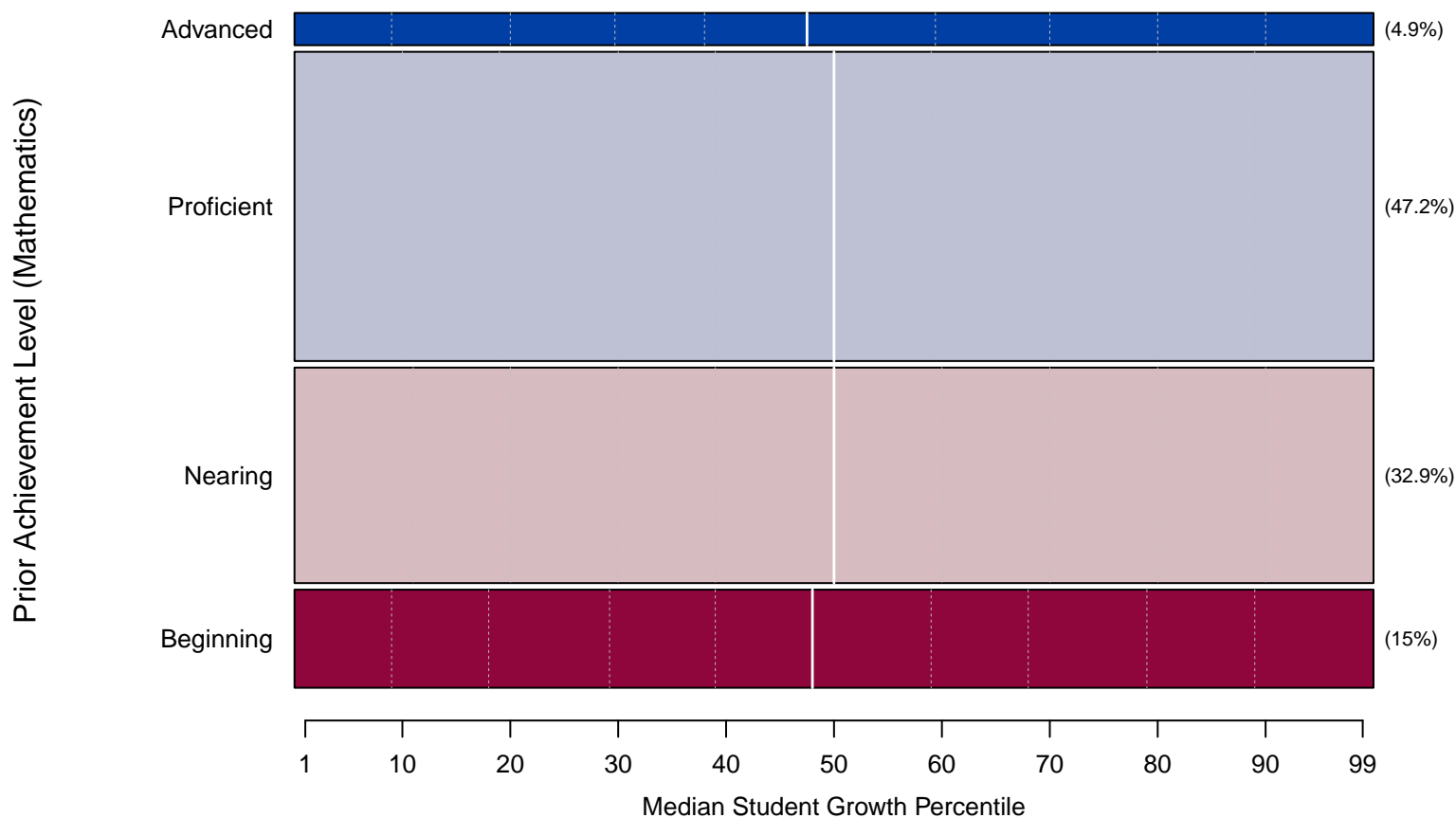## 2012 Mathematics SGP, Grade 4 (N = 6,697)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Advanced	(4.9%)
Proficient	(47.2%)
Nearing	(32.9%)
Beginning	(15%)

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/[300,325)	10.38	11.45	9.62	8.09	12.21	8.85	9.31	10.08	9.62	10.38	(9.8%)
2nd/[325,330)	10.94	8.25	8.42	13.97	10.44	10.10	10.27	8.92	10.27	8.42	(8.9%)
3rd/[330,334)	7.05	12.17	9.54	8.30	8.58	9.96	11.62	11.07	12.17	9.54	(10.8%)
4th/[334,337)	9.86	8.01	12.79	12.63	4.78	12.48	6.93	11.40	8.17	12.94	(9.7%)
5th/[337,341)	10.64	10.08	8.70	11.19	13.12	7.60	11.33	7.87	9.53	9.94	(10.8%)
6th/[341,343)	10.84	10.84	8.59	9.20	8.18	13.50	11.86	10.63	7.77	8.59	(7.3%)
7th/[343,346)	8.70	11.48	10.61	11.30	6.09	11.83	7.13	10.09	13.74	9.04	(8.6%)
8th/[346,350)	10.36	10.11	9.12	9.12	12.33	6.78	11.47	10.23	9.00	11.47	(12.1%)
9th/[350,355)	9.30	9.69	10.72	10.59	9.82	12.02	7.24	9.69	11.63	9.30	(11.6%)
10th/[355,380]	9.96	10.67	9.53	10.67	8.68	11.38	9.53	9.53	9.67	10.38	(10.5%)

*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