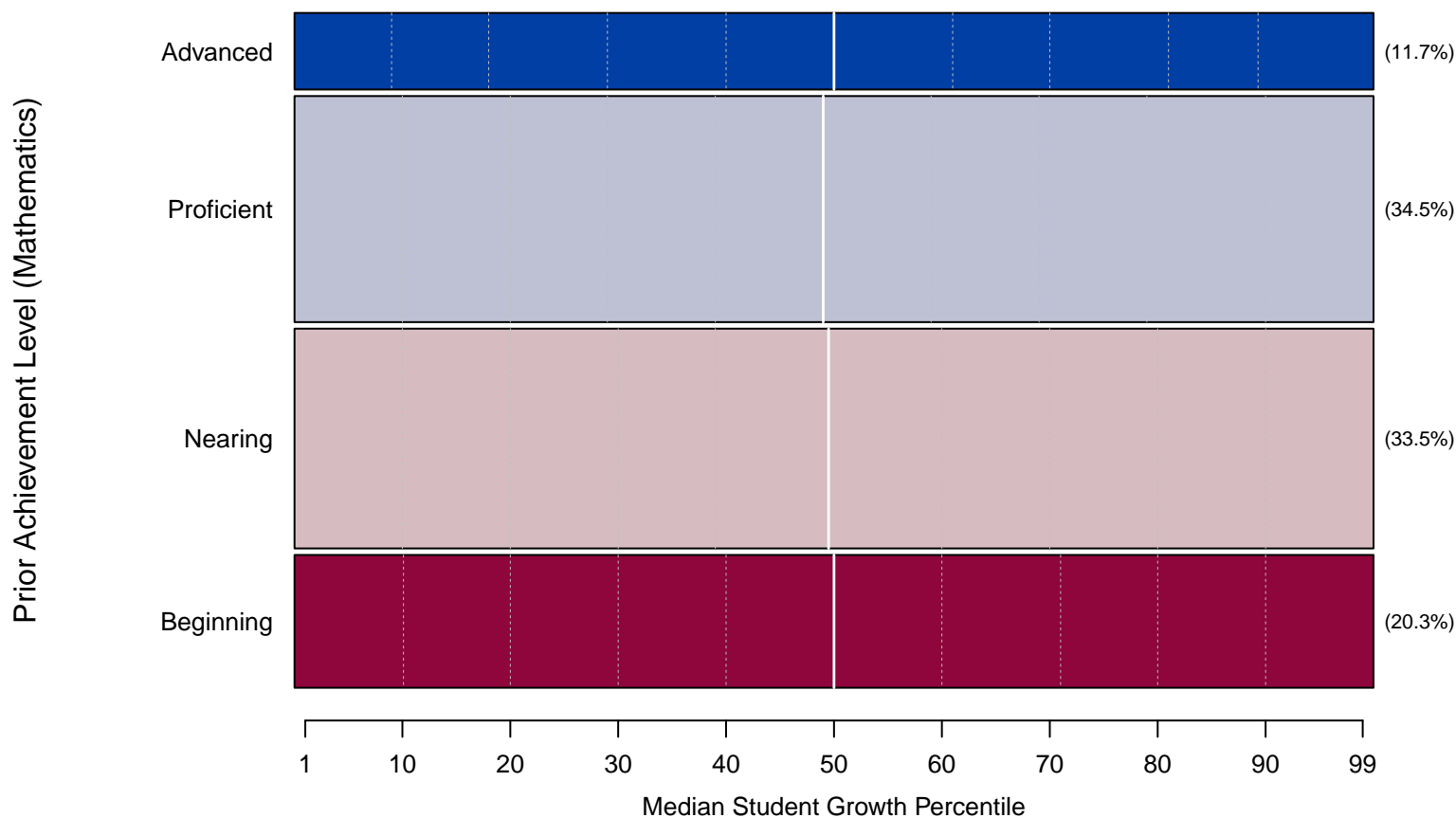# Student Growth Percentile Goodness–of–Fit Descriptives
2013 Mathematics SGP, Grade 5 (N = 5,289)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (11.7%)
- Proficient (34.5%)
- Nearing (33.5%)
- Beginning (20.3%)

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/[400,423)	10.63	8.59	9.61	10.22	9.00	10.63	10.02	9.82	10.84	10.63	(9.2%)
2nd/[423,428)	7.48	11.02	12.27	10.40	11.43	8.11	9.77	10.40	9.56	9.56	(9.1%)
3rd/[428,433)	10.82	9.82	8.15	9.82	9.32	11.48	10.65	9.15	9.98	10.82	(11.4%)
4th/[433,436)	10.79	9.37	12.42	9.16	9.57	9.98	9.57	9.16	10.39	9.57	(9.3%)
5th/[436,439)	8.87	9.88	10.08	11.09	10.28	9.07	9.27	10.69	9.88	10.89	(9.4%)
6th/[439,442)	8.70	9.92	9.72	10.93	9.31	9.11	9.72	10.93	10.93	10.73	(9.3%)
7th/[442,445)	9.57	10.60	9.57	8.72	10.60	10.94	10.09	9.23	9.40	11.28	(11.1%)
8th/[445,449)	11.86	9.20	11.15	10.44	10.27	8.14	9.73	9.38	11.15	8.67	(10.7%)
9th/[449,454)	7.89	9.72	10.09	10.83	10.28	11.56	10.09	10.28	8.81	10.46	(10.3%)
10th/[454,480]	10.89	11.25	9.04	9.78	8.86	9.23	11.07	9.59	10.15	10.15	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution