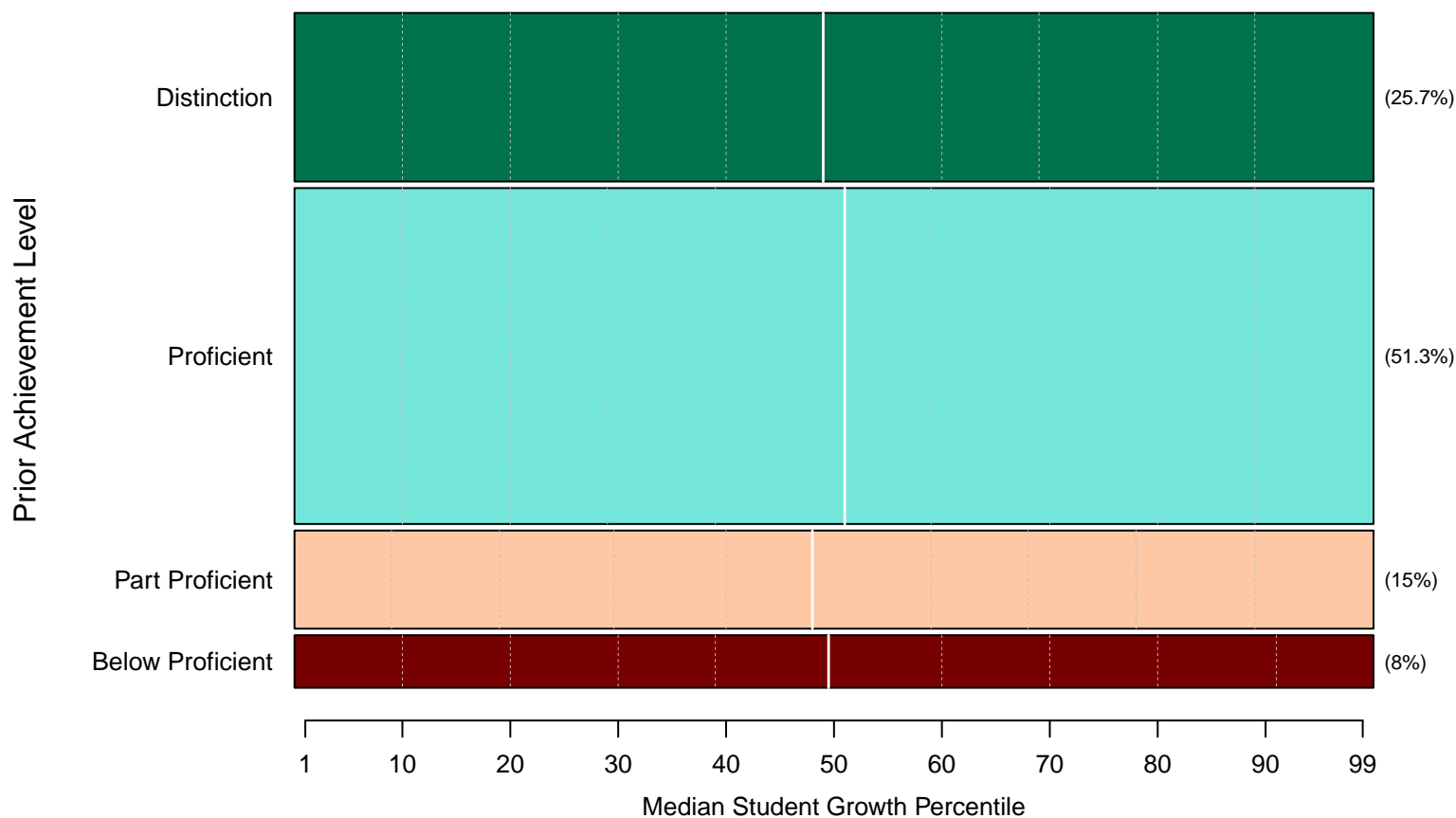# Student Growth Percentile Goodness–of–Fit Descriptives

2010–2011 Mathematics SGP, Grade 4 (N = 13,442)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

Distinction	(25.7%)
Proficient	(51.3%)
Part Proficient	(15%)
Below Proficient	(8%)

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/[300,333)	9.25	9.92	11.00	10.50	8.50	9.17	11.33	10.00	9.25	11.08	(8.9%)
2nd/[333,339)	11.51	9.75	7.70	10.52	12.36	10.59	8.05	10.88	9.96	8.69	(10.5%)
3rd/[339,342)	8.17	11.43	10.37	11.24	7.20	9.89	11.82	7.78	10.66	11.43	(7.7%)
4th/[342,345)	8.36	12.10	10.48	10.12	7.62	11.95	8.72	9.75	10.56	10.34	(10.1%)
5th/[345,347)	8.49	8.25	11.48	12.19	7.86	8.57	9.43	12.03	11.40	10.30	(9.5%)
6th/[347,350)	10.63	11.30	10.43	10.16	7.69	13.50	11.16	6.22	10.36	8.56	(11.1%)
7th/[350,352)	10.59	12.28	7.74	12.81	5.96	12.19	6.58	12.99	8.72	10.14	(8.4%)
8th/[352,355)	8.58	8.65	10.32	8.26	13.16	11.61	8.90	10.97	9.48	10.06	(11.5%)
9th/[355,360)	10.04	9.75	10.62	9.45	11.64	7.27	10.91	7.27	13.45	9.60	(10.2%)
10th/[360,380]	9.91	9.48	10.54	10.41	9.23	11.22	9.79	10.72	9.04	9.66	(11.9%)

*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