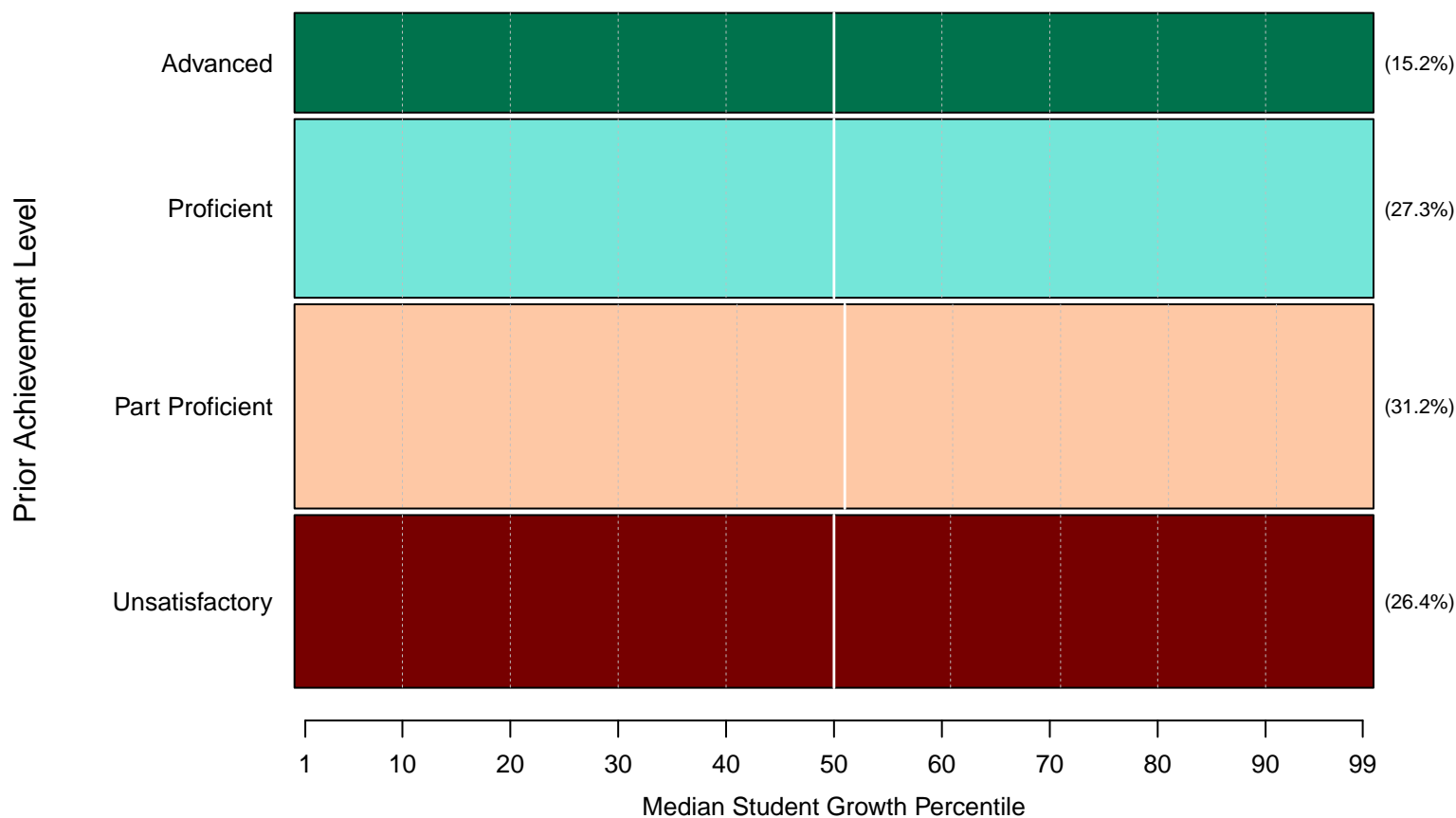# Student Growth Percentile Goodness–of–Fit Descriptives
2009 Mathematics SGP, Grade 10 (N = 51,142)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

- Advanced (15.2%)
- Proficient (27.3%)
- Part Proficient (31.2%)
- Unsatisfactory (26.4%)

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/[340,500)	10.52	9.19	9.30	9.75	10.03	10.01	10.13	10.38	9.83	10.85	(10%)
2nd/[500,533)	9.09	10.36	10.26	9.72	10.02	9.72	9.56	9.82	10.12	11.36	(9.8%)
3rd/[533,555)	9.65	10.01	10.43	9.87	9.65	9.64	10.06	10.22	9.79	10.67	(10%)
4th/[555,573)	10.07	10.11	9.64	9.97	9.54	9.73	9.56	10.03	10.44	10.93	(10%)
5th/[573,590)	9.46	9.46	9.46	9.65	9.88	9.75	10.36	10.34	10.41	11.24	(10.2%)
6th/[590,606)	9.47	10.57	9.84	9.14	10.18	10.25	10.18	9.77	9.88	10.72	(10%)
7th/[606,623)	9.49	9.67	10.34	10.18	9.93	9.69	9.79	9.63	10.10	11.17	(9.9%)
8th/[623,641)	10.36	9.96	9.34	9.76	10.04	10.30	9.44	10.38	9.60	10.82	(9.8%)
9th/[641,665)	9.49	10.04	10.14	10.22	9.44	9.61	9.98	9.67	10.14	11.27	(10%)
10th/[665,920]	9.99	9.44	9.78	9.80	10.09	10.05	10.20	10.17	9.96	10.51	(10.3%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution