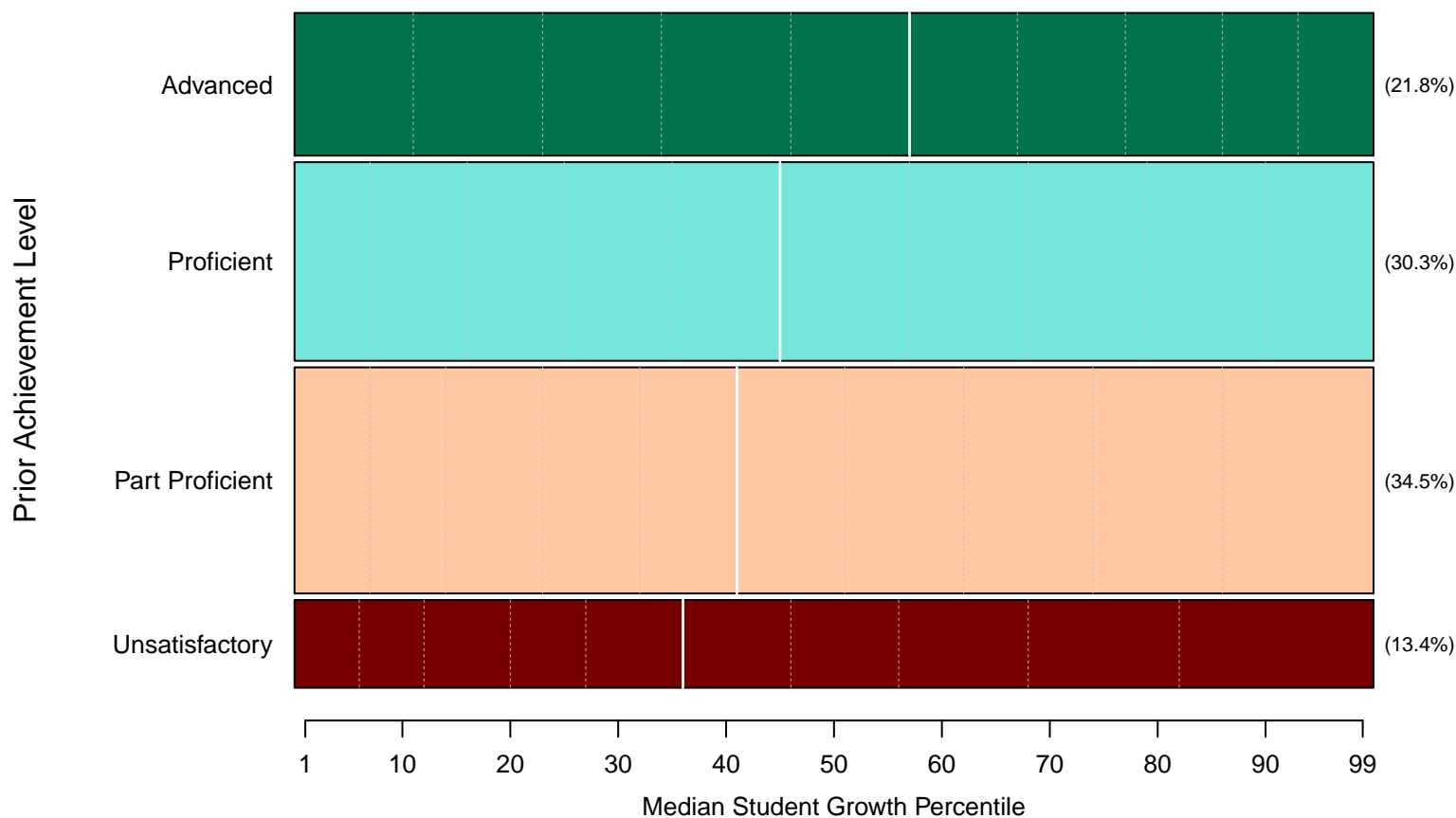# Student Growth Percentile Goodness–of–Fit Descriptives

2008 Mathematics SGP, Grade 8 (N = 53,015)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

- Advanced (21.8%)
- Proficient (30.3%)
- Part Proficient (34.5%)
- Unsatisfactory (13.4%)

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/[280,473)	16.18	14.64	13.13	10.80	9.89	9.24	8.14	6.83	5.98	5.19	(9.8%)
2nd/[473,505)	15.11	13.21	10.77	11.62	10.16	8.99	7.96	8.37	7.07	6.75	(9.9%)
3rd/[505,527)	13.89	12.50	11.46	10.40	10.57	9.84	8.47	7.67	7.91	7.28	(10.2%)
4th/[527,545)	13.47	12.97	11.29	10.58	9.93	8.62	9.49	8.20	8.01	7.43	(9.8%)
5th/[545,562)	12.97	11.41	11.88	10.43	9.80	9.68	8.29	8.40	8.54	8.59	(10%)
6th/[562,579)	12.91	11.39	10.71	10.17	9.86	8.74	9.55	8.77	8.49	9.41	(10%)
7th/[579,596)	12.74	12.42	10.97	9.19	9.58	8.73	8.32	8.44	9.11	10.50	(9.8%)
8th/[596,618)	11.63	10.17	10.71	9.05	9.14	8.56	9.45	8.80	10.06	12.42	(10.5%)
9th/[618,644)	10.12	9.33	9.03	8.72	8.87	9.06	9.20	10.31	11.22	14.13	(9.8%)
10th/[644,860]	7.81	7.18	7.99	8.12	8.79	9.39	10.13	11.20	12.99	16.39	(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