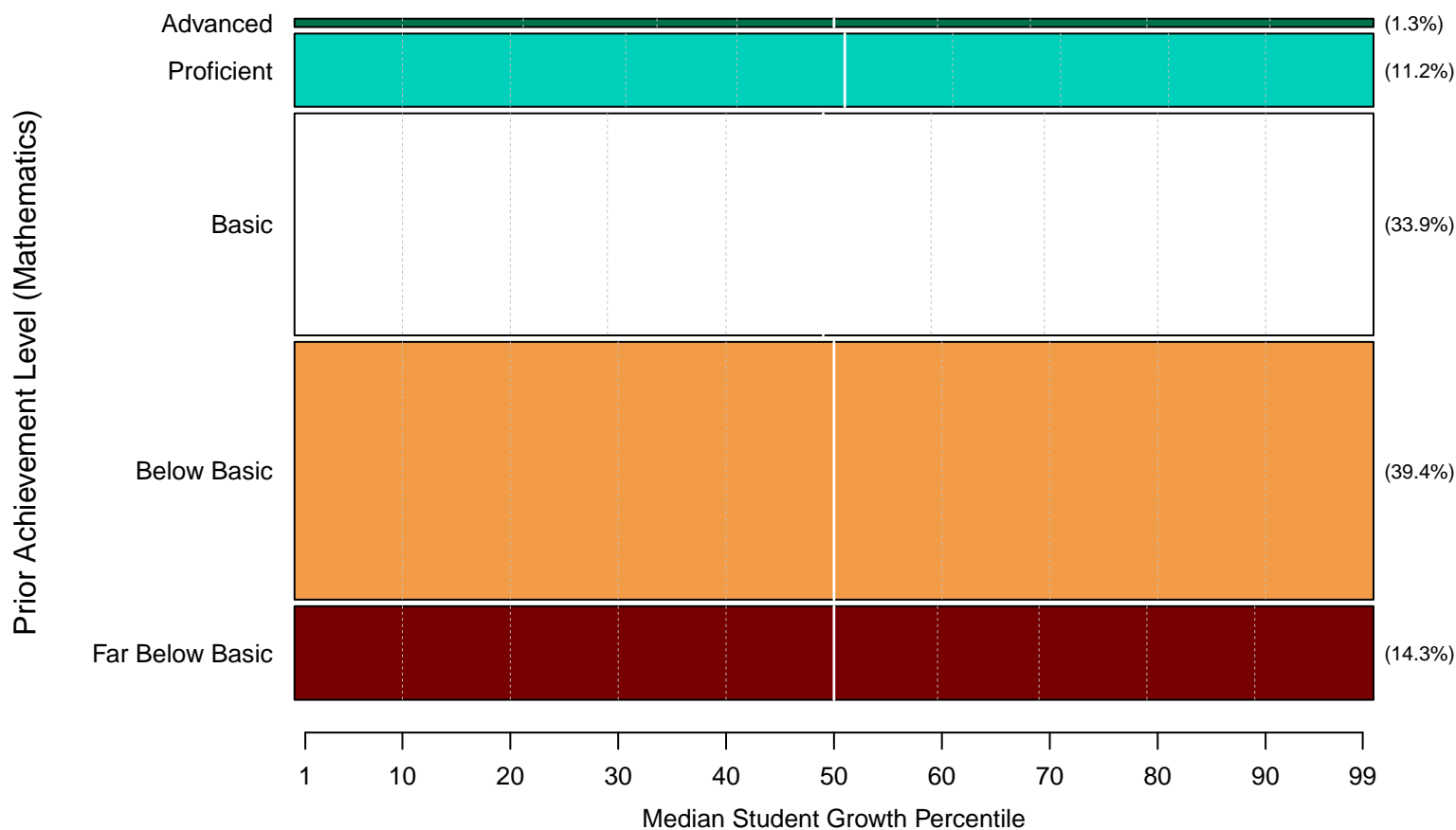# Student Growth Percentile Goodness–of–Fit Descriptives

2012 General Mathematics SGP, Grade 8 (N = 10,017)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics):

- Advanced (1.3%)
- Proficient (11.2%)
- Basic (33.9%)
- Below Basic (39.4%)
- Far Below Basic (14.3%)

Median Student Growth Percentile (x-axis: 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/[168,248)	9.20	9.56	9.80	10.75	8.72	10.87	9.80	10.87	10.87	9.56	(8.4%)
2nd/[248,263)	9.93	9.62	11.27	9.72	10.96	9.82	9.72	9.31	8.79	10.86	(9.7%)
3rd/[263,272)	10.16	12.00	9.79	10.40	9.55	11.02	8.57	9.55	9.55	9.42	(8.2%)
4th/[272,285)	8.00	9.29	10.33	11.36	10.67	9.90	9.98	9.64	10.84	9.98	(11.6%)
5th/[285,294)	9.64	10.51	11.00	9.39	8.03	8.90	9.89	10.88	11.25	10.51	(8.1%)
6th/[294,306)	8.99	10.63	9.08	8.90	10.45	10.54	10.08	9.99	10.54	10.81	(11%)
7th/[306,322)	10.95	9.70	10.71	9.86	10.79	8.77	9.32	10.09	8.77	11.02	(12.9%)
8th/[322,335)	8.78	10.83	8.66	11.67	11.07	10.83	9.39	9.87	9.51	9.39	(8.3%)
9th/[335,356)	10.04	10.13	10.22	8.79	8.34	10.31	10.58	10.31	10.13	11.12	(11.1%)
10th/[356,578]	9.54	9.72	9.72	9.72	10.18	10.46	9.45	9.36	11.10	10.73	(10.9%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution