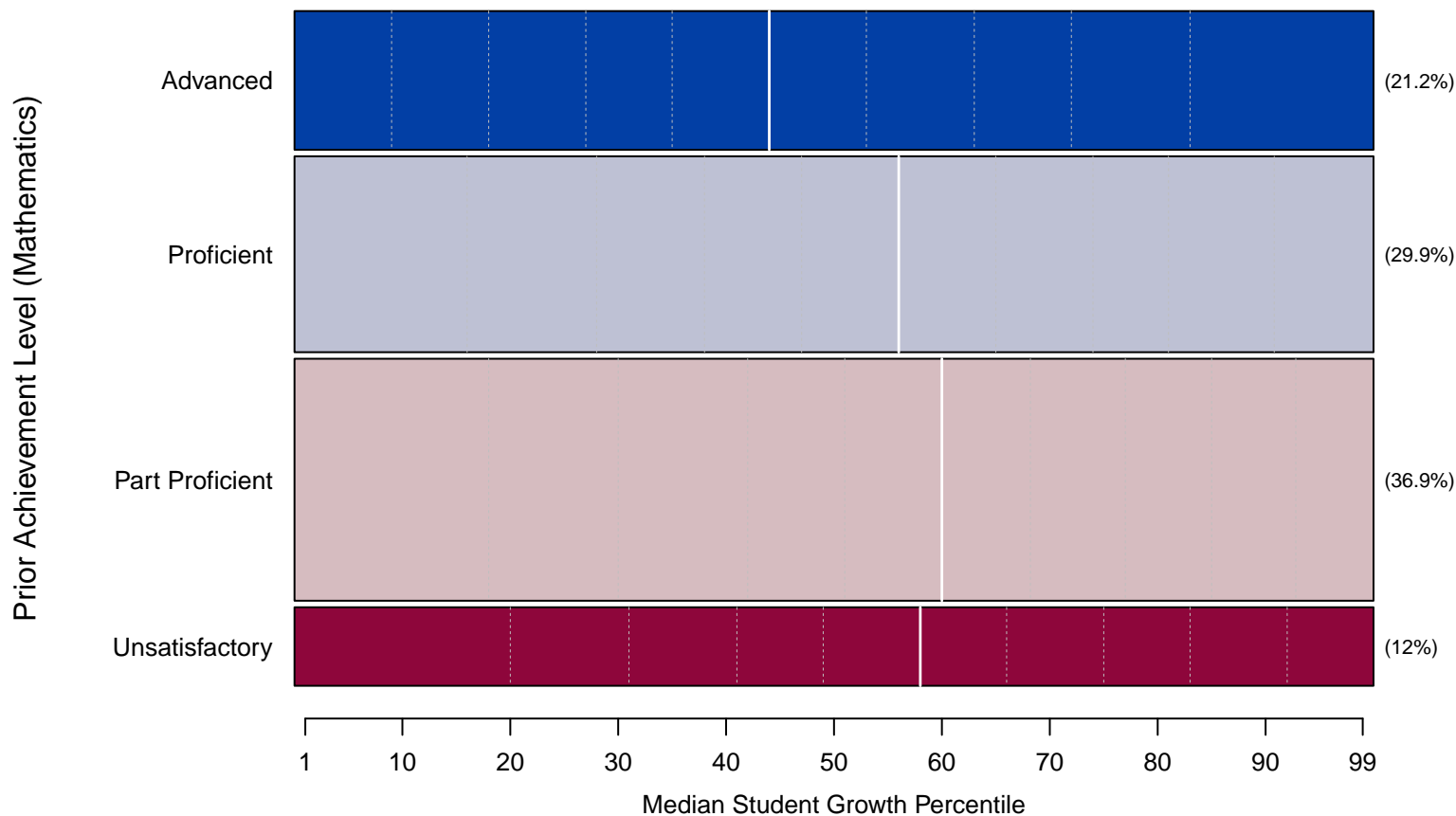# Student Growth Percentile Goodness–of–Fit Descriptives
2012–2013 Mathematics SGP, Grade 8 (N = 4,123)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (21.2%)
- Proficient (29.9%)
- Part Proficient (36.9%)
- Unsatisfactory (12%)

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/[280,479)	3.89	7.06	8.03	10.95	11.92	10.95	11.19	10.71	12.41	12.90	(10%)
2nd/[479,506)	3.54	5.30	7.83	7.58	8.59	13.89	12.88	11.36	13.89	15.15	(9.6%)
3rd/[506,525)	4.69	10.12	6.67	8.89	10.86	10.62	11.36	10.62	12.84	13.33	(9.8%)
4th/[525,544)	4.46	5.16	8.69	8.92	10.09	12.21	12.91	13.15	9.39	15.02	(10.3%)
5th/[544,560)	3.64	7.28	8.01	8.25	9.47	12.62	10.92	12.38	13.11	14.32	(10%)
6th/[560,577)	3.83	7.89	6.46	11.24	10.77	12.68	11.96	11.72	12.68	10.77	(10.1%)
7th/[577,595)	6.19	8.17	6.68	9.65	10.64	10.64	11.63	11.63	11.88	12.87	(9.8%)
8th/[595,616)	4.83	9.42	11.59	10.63	11.11	11.11	10.63	11.59	9.66	9.42	(10%)
9th/[616,645)	11.06	7.69	12.26	11.06	10.58	9.86	10.34	10.58	8.65	7.93	(10.1%)
10th/[645,817)	11.40	14.01	11.16	13.06	10.45	12.11	11.16	7.36	6.41	2.85	(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