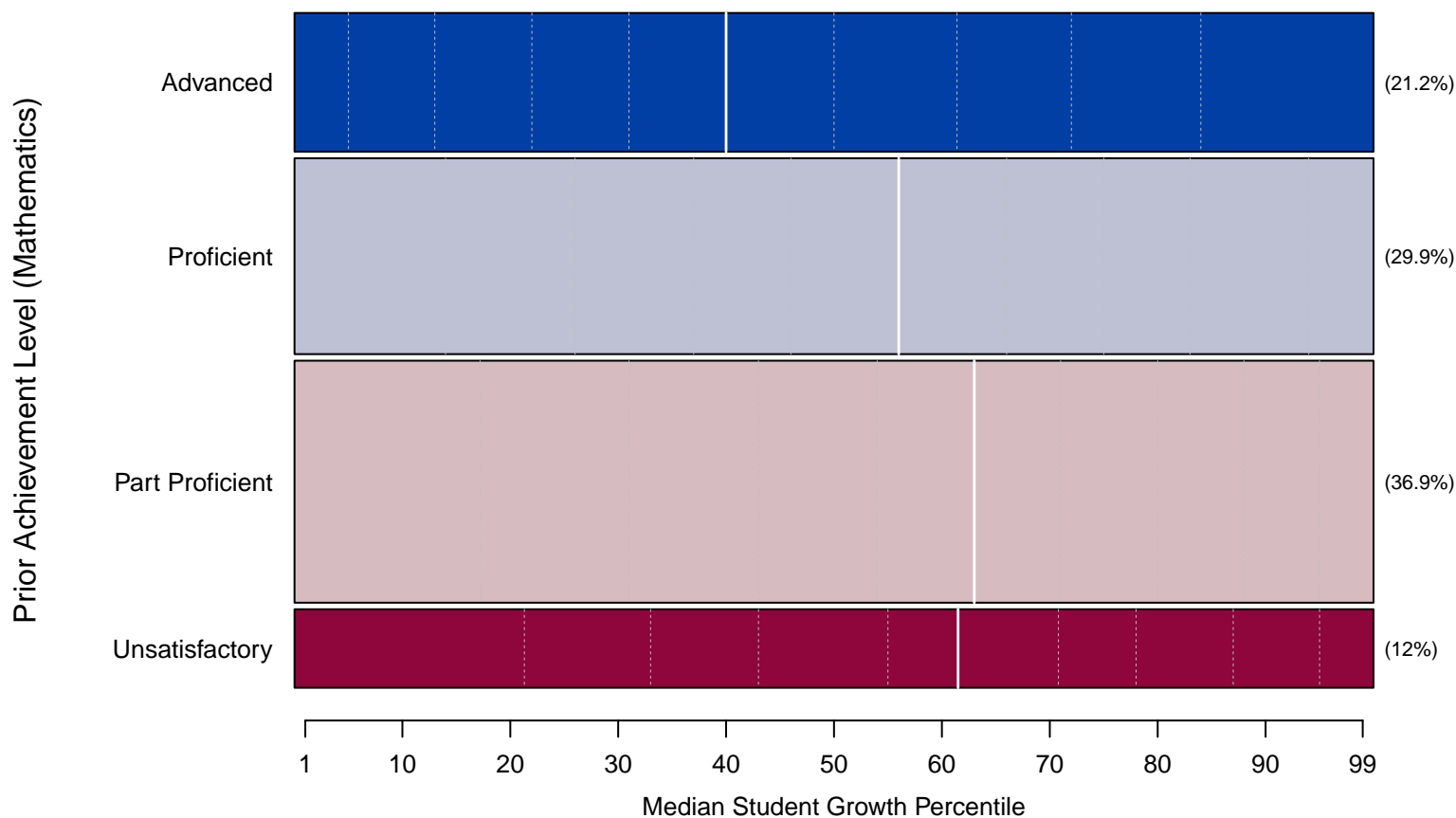# Student Growth Percentile Goodness–of–Fit Descriptives

2012–2013 Mathematics SGP SIMEX, 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)	3.16	6.08	8.52	9.98	9.25	11.92	10.71	11.44	11.68	17.27	(10%)
2nd/[479,506)	3.28	5.05	7.32	6.31	7.58	12.37	12.63	12.63	12.88	19.95	(9.6%)
3rd/[506,525)	5.43	8.89	7.90	7.90	8.64	9.14	12.84	8.40	12.59	18.27	(9.8%)
4th/[525,544)	4.93	6.10	4.93	9.62	11.50	9.62	10.80	13.15	11.50	17.84	(10.3%)
5th/[544,560)	3.88	7.28	8.50	6.55	9.71	12.14	10.19	11.65	10.92	19.17	(10%)
6th/[560,577)	6.22	6.46	6.22	9.33	12.44	9.57	12.68	10.05	11.96	15.07	(10.1%)
7th/[577,595)	7.43	8.17	6.93	8.91	11.14	8.17	10.89	11.14	11.63	15.59	(9.8%)
8th/[595,616)	6.76	9.90	11.59	11.59	10.39	9.66	9.18	9.18	10.87	10.87	(10%)
9th/[616,645)	13.70	8.41	12.74	11.06	9.38	6.97	9.86	11.06	8.17	8.65	(10.1%)
10th/[645,817)	19.48	11.88	11.16	12.35	9.98	9.26	10.21	7.60	4.99	3.09	(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