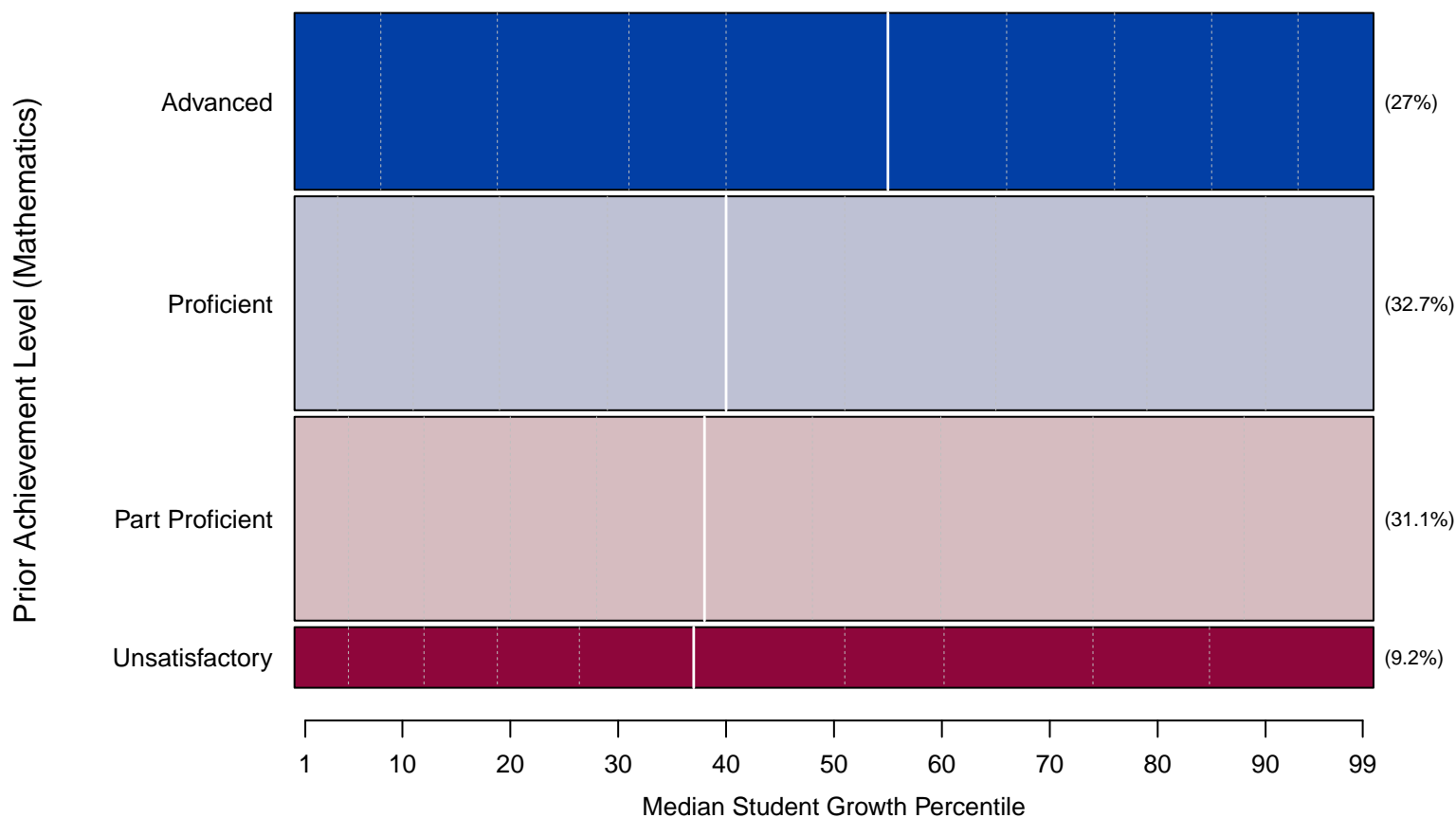# Student Growth Percentile Goodness–of–Fit Descriptives
2011–2012 Mathematics SGP SIMEX, Grade 8 (N = 4,076)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (27%)
- Proficient (32.7%)
- Part Proficient (31.1%)
- Unsatisfactory (9.2%)

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/[280,489]	18.05	13.53	12.03	8.27	6.77	10.28	6.77	10.28	7.02	7.02	(9.8%)
2nd/[489,519]	16.79	9.98	13.14	11.19	10.71	7.30	6.33	8.76	8.27	7.54	(10.1%)
3rd/[519,539]	20.05	12.94	12.69	9.90	6.85	9.14	7.87	5.58	7.11	7.87	(9.7%)
4th/[539,557]	14.43	14.68	10.38	11.65	8.86	9.87	6.33	6.84	6.33	10.63	(9.7%)
5th/[557,575]	16.05	12.33	10.93	9.77	9.53	8.37	6.51	7.91	9.53	9.07	(10.5%)
6th/[575,592]	16.11	12.74	11.78	10.34	10.82	6.49	5.77	6.73	7.93	11.30	(10.2%)
7th/[592,608]	20.35	12.41	8.68	7.69	8.68	7.20	7.94	5.96	8.19	12.90	(9.9%)
8th/[608,627]	15.46	10.57	10.31	10.05	8.51	6.19	7.47	6.96	9.02	15.46	(9.5%)
9th/[627,652]	12.29	8.75	6.86	11.35	6.38	9.46	8.51	8.51	13.48	14.42	(10.4%)
10th/[652,860]	11.03	7.19	7.19	9.83	6.00	8.15	11.99	11.03	13.91	13.67	(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