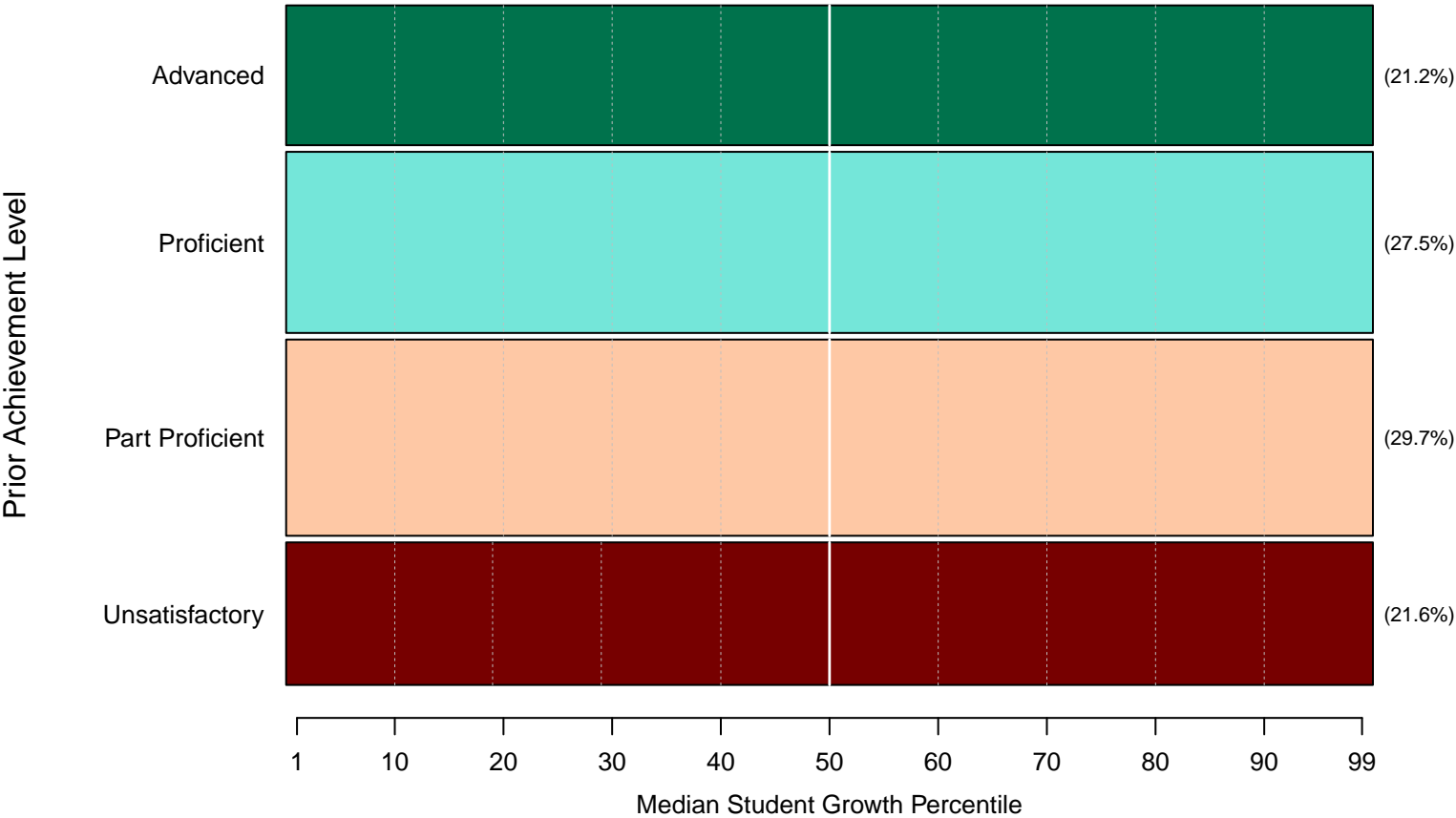# Student Growth Percentile Goodness–of–Fit Descriptives
2009 Mathematics SGP, Grade 9 (N = 51,877)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

- Advanced (21.2%)
- Proficient (27.5%)
- Part Proficient (29.7%)
- Unsatisfactory (21.6%)

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/[310,481)	9.98	10.00	9.71	9.90	10.31	9.83	10.29	9.40	9.75	10.82	(9.9%)
2nd/[481,516)	9.63	10.99	10.02	9.67	9.90	9.77	9.31	9.98	10.28	10.46	(9.8%)
3rd/[516,539)	9.04	10.33	10.03	10.76	9.37	10.17	9.80	9.66	9.43	11.42	(9.9%)
4th/[539,558)	10.12	9.49	9.88	10.37	9.89	9.93	10.17	10.13	10.13	9.88	(10.4%)
5th/[558,574)	9.89	10.03	10.21	9.81	10.25	9.85	9.42	9.54	9.63	11.37	(9.5%)
6th/[574,591)	9.96	10.08	9.55	9.41	9.60	10.13	10.09	10.49	10.57	10.11	(10.2%)
7th/[591,609)	9.29	9.89	10.70	10.70	9.60	9.58	10.53	9.39	9.31	11.01	(10%)
8th/[609,630)	9.52	10.32	9.77	9.61	9.75	10.11	9.77	10.00	10.21	10.94	(10%)
9th/[630,658)	9.74	10.08	9.70	10.33	9.99	9.72	9.93	9.95	10.21	10.35	(10.2%)
10th/[658,890]	9.77	9.79	9.98	9.64	9.77	9.94	9.74	10.15	10.36	10.84	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution