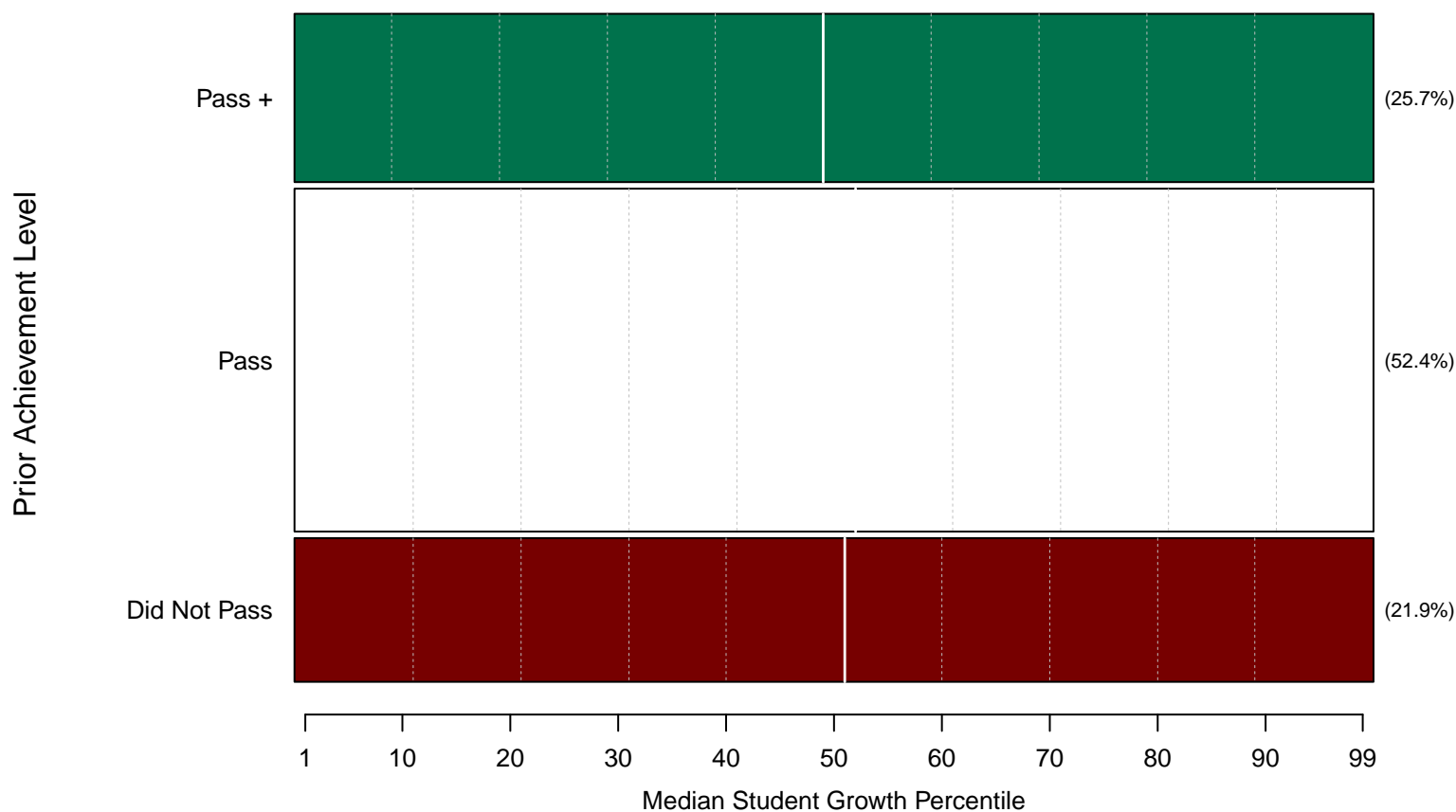# Student Growth Percentile Goodness–of–Fit Descriptives
2012 Mathematics SGP, Grade 8 (N = 75,433)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

Pass + (25.7%)

Pass (52.4%)

Did Not Pass (21.9%)

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/[315,478)	9.69	10.21	10.28	9.97	10.29	10.73	10.12	9.44	10.08	9.20	(9.8%)
2nd/[478,506)	8.40	10.22	9.71	10.07	10.03	9.86	10.39	10.34	10.82	10.15	(9.9%)
3rd/[506,525)	8.65	8.98	9.75	10.04	10.07	10.18	10.26	10.46	10.82	10.81	(9.9%)
4th/[525,542)	8.49	9.67	9.67	9.75	10.25	10.60	10.61	10.13	10.17	10.66	(10.3%)
5th/[542,558)	8.45	9.64	9.94	9.98	9.44	10.00	9.73	10.98	9.99	11.86	(9.8%)
6th/[558,575)	8.76	9.43	9.47	9.65	9.58	9.62	10.10	10.37	10.86	12.15	(9.9%)
7th/[575,594)	9.54	9.74	9.20	9.56	10.40	10.03	10.03	10.36	10.14	11.01	(10.3%)
8th/[594,616)	10.17	10.28	10.12	9.79	9.41	10.03	10.02	9.49	10.23	10.46	(10%)
9th/[616,645)	10.28	9.99	10.08	10.19	9.82	9.65	9.76	10.01	10.01	10.21	(9.9%)
10th/[645,810]	10.18	10.92	10.25	9.87	10.03	10.03	10.57	10.20	9.14	8.81	(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