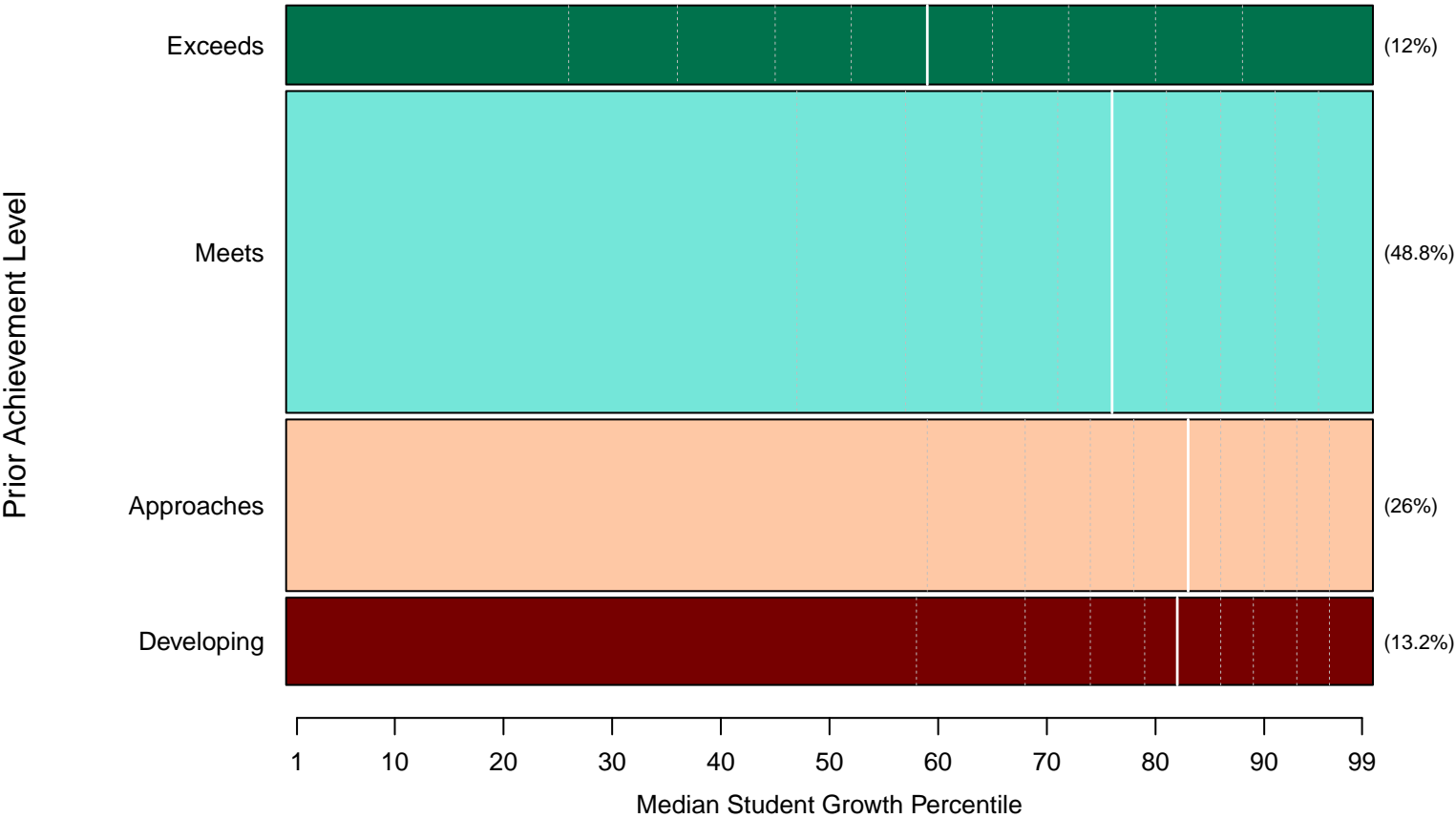# Student Growth Percentile Goodness–of–Fit Descriptives

2008–2009 Mathematics SGP, Grade 10 (N = 23,575)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

- Exceeds (12%)
- Meets (48.8%)
- Approaches (26%)
- Developing (13.2%)

Median Student Growth Percentile: 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99

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/[100,178)	4.29	0.49	0.00	2.27	2.41	4.98	9.75	20.39	27.09	28.33	(8.6%)
2nd/[178,240)	1.03	0.00	0.64	0.56	1.85	3.43	9.49	20.91	27.82	34.26	(9.9%)
3rd/[240,270)	0.62	0.43	0.57	1.23	2.46	5.12	10.94	20.80	26.91	30.93	(9%)
4th/[270,302)	0.36	0.43	0.54	1.15	2.84	6.58	12.51	20.38	26.02	29.19	(11.8%)
5th/[302,321)	0.24	0.38	1.11	1.87	2.64	7.21	15.28	18.79	25.23	27.25	(8.8%)
6th/[321,345)	0.23	0.65	0.68	2.58	4.03	9.92	13.53	17.71	23.49	27.18	(11.2%)
7th/[345,367)	0.31	0.48	1.45	2.76	6.84	9.07	17.49	20.69	19.77	21.13	(9.7%)
8th/[367,390)	0.52	1.03	1.55	5.11	8.95	10.92	15.56	16.40	19.92	20.06	(9.1%)
9th/[390,430)	0.32	1.24	3.44	7.17	10.26	14.34	13.88	17.07	16.50	15.79	(12%)
10th/[430,500)	1.60	4.67	8.28	13.96	11.73	13.12	14.05	13.67	11.73	7.19	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100