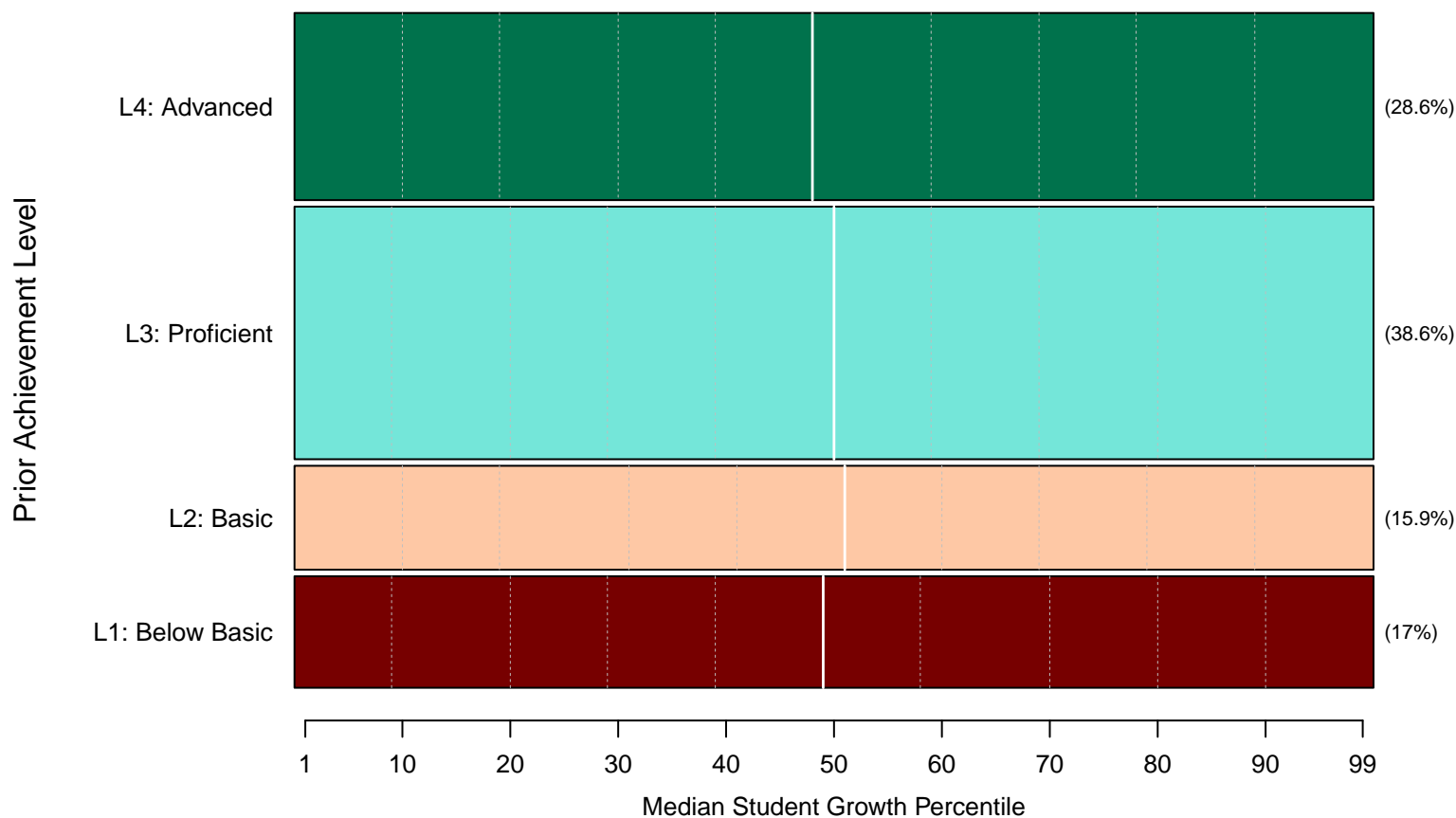# Student Growth Percentile Goodness–of–Fit Descriptives
2009–2010 Mathematics SGP, Grade 4 (N = 71,767)

SGP Deciles by Prior Achievement Level

Prior Achievement Level

L4: Advanced	(28.6%)
L3: Proficient	(38.6%)
L2: Basic	(15.9%)
L1: Below Basic	(17%)

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/[175,353)	9.97	9.41	11.14	9.93	10.01	9.27	11.83	8.77	9.48	10.18	(8.7%)
2nd/[353,376)	9.87	9.86	11.85	11.19	7.96	10.49	7.60	10.98	10.56	9.64	(11%)
3rd/[376,391)	8.91	10.61	8.97	10.53	8.41	11.02	11.61	10.40	8.69	10.85	(9.4%)
4th/[391,401)	10.55	12.88	6.57	7.98	15.15	8.65	10.75	8.31	8.68	10.48	(8%)
5th/[401,412)	10.38	6.54	16.04	7.75	7.42	11.70	10.35	9.57	11.31	8.93	(9.8%)
6th/[412,425)	9.44	10.99	9.59	10.49	7.70	11.46	7.96	10.43	10.48	11.46	(11.6%)
7th/[425,432)	10.97	8.88	6.49	14.55	7.69	15.39	7.31	6.55	10.64	11.53	(6.3%)
8th/[432,448)	10.58	8.84	11.83	7.25	16.50	8.60	8.39	7.46	11.82	8.73	(13.1%)
9th/[448,469)	9.41	11.76	8.93	11.72	8.80	8.86	13.87	8.18	7.38	11.10	(11.7%)
10th/[469,550]	9.55	12.14	7.35	10.87	14.25	8.08	6.65	11.95	10.97	8.19	(10.4%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution