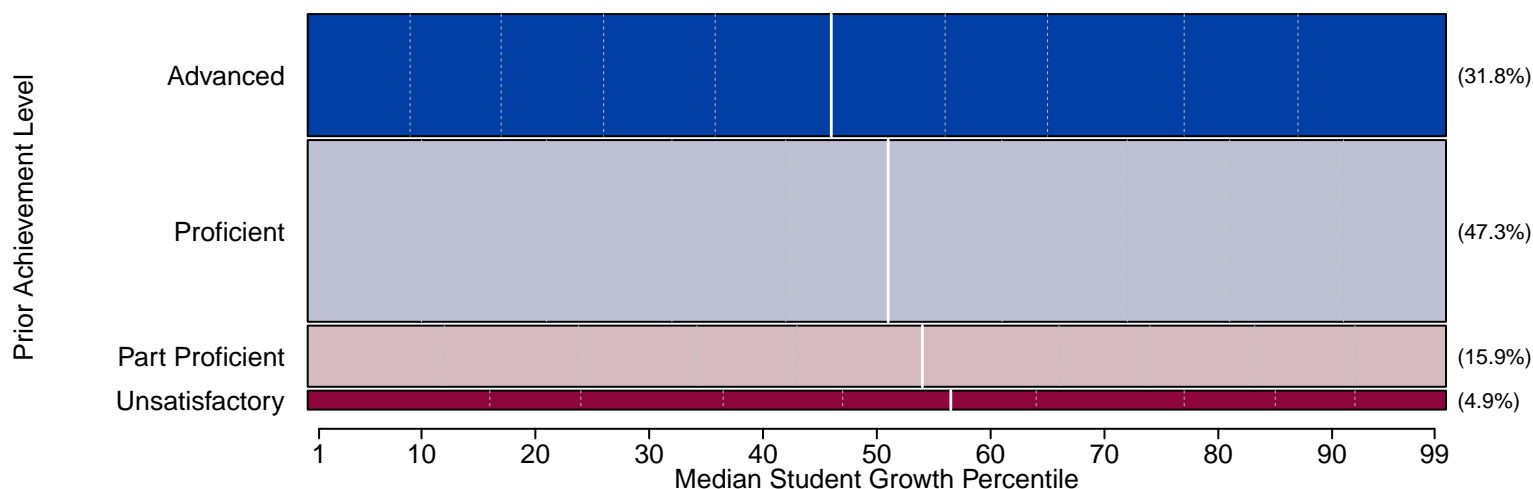# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016 Mathematics SGP SIMEX Ranked, Grade 5 (N = 4,175)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (vertical axis): Advanced (31.8%), Proficient (47.3%), Part Proficient (15.9%), Unsatisfactory (4.9%)

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

Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)

		1 to 5	5 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 94	95 to 99	
Lowest OSS:	[220,334]	32.0	16.0	12.0	8.0	4.0	8.0	12.0	4.0	0.0	4.0	0.0	0.0	N = 25
	[334,369]	20.0	4.0	20.0	16.0	16.0	4.0	12.0	8.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[697,721]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	16.7	12.5	45.8	20.8	N = 24
	[721,800]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	32.1	14.3	46.4	N = 28

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/[180,419)	6.54	8.47	8.47	10.65	7.51	10.41	11.38	10.17	13.08	13.32	(9.9%)
2nd/[419,452)	9.62	8.41	9.13	10.10	11.54	7.21	11.54	9.13	11.78	11.54	(10%)
3rd/[452,475)	5.71	7.62	8.57	9.29	9.76	10.48	11.67	11.90	10.48	14.52	(10.1%)
4th/[475,492)	10.05	9.31	10.29	7.60	12.25	9.56	9.31	8.82	8.09	14.71	(9.8%)
5th/[492,508)	10.70	10.70	11.63	11.63	10.23	10.23	6.98	12.79	8.37	6.74	(10.3%)
6th/[508,525)	8.19	9.88	7.47	8.67	9.40	13.25	10.12	9.40	12.05	11.57	(9.9%)
7th/[525,541)	10.34	9.38	8.89	9.38	10.10	9.13	11.54	9.86	11.30	10.10	(10%)
8th/[541,561)	10.19	13.27	10.66	12.09	11.61	9.48	8.06	5.92	9.72	9.00	(10.1%)
9th/[561,592)	10.49	12.93	10.98	9.76	9.02	9.51	12.44	8.54	7.80	8.54	(9.8%)
10th/[592,780)	10.12	10.82	12.47	8.94	9.88	9.41	10.82	11.29	9.65	6.59	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (horizontal axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100
Empirical SGP Distribution (vertical axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100