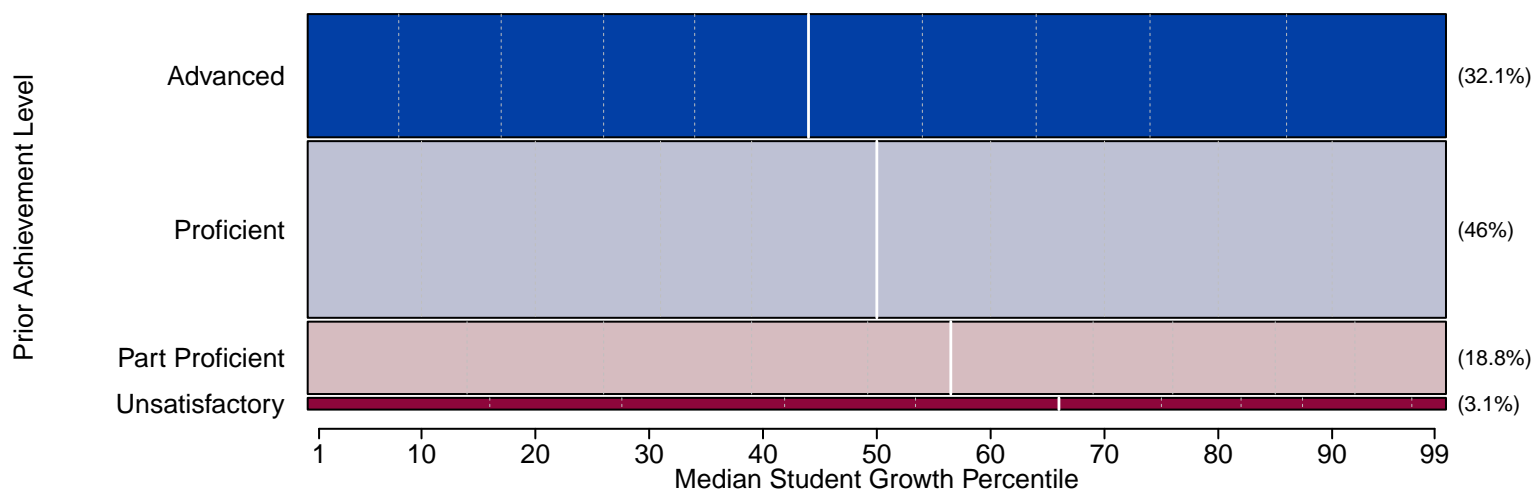# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016 Mathematics SGP SIMEX Ranked, Grade 4 (N = 4,054)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level:
- Advanced (32.1%)
- Proficient (46%)
- Part Proficient (18.8%)
- Unsatisfactory (3.1%)

Median Student Growth Percentile (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:	[191,311]	38.5	15.4	23.1	11.5	3.8	0.0	0.0	3.8	0.0	0.0	0.0	3.8	N = 26
	[311,334]	22.2	11.1	22.2	11.1	7.4	7.4	7.4	3.7	7.4	0.0	0.0	0.0	N = 27
Highest OSS:	[684,721]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	14.3	33.3	28.6	N = 21
	[721,780]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	24.1	62.1	N = 29

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/[150,381]	5.69	5.45	8.91	8.17	8.42	11.39	7.92	13.61	11.63	18.81	(10%)
2nd/[381,414]	6.93	10.64	7.43	7.18	9.90	12.13	8.42	12.62	10.89	13.86	(10%)
3rd/[414,437]	6.87	8.91	4.83	13.74	8.91	11.96	10.69	12.47	10.18	11.45	(9.7%)
4th/[437,457]	10.21	10.21	8.79	10.21	7.84	9.74	8.79	12.11	9.98	12.11	(10.4%)
5th/[457,476]	7.92	11.35	9.76	12.93	10.55	8.71	10.29	7.12	10.55	10.82	(9.3%)
6th/[476,495]	11.46	10.50	10.02	10.98	8.35	9.07	10.50	10.26	9.55	9.31	(10.3%)
7th/[495,515]	11.57	8.19	8.92	10.84	12.05	10.12	11.57	7.71	10.36	8.67	(10.2%)
8th/[515,538]	10.91	11.68	11.68	10.15	12.69	10.15	9.90	6.60	9.39	6.85	(9.7%)
9th/[538,576]	11.98	12.47	12.96	8.56	11.00	9.05	10.76	8.07	8.31	6.85	(10.1%)
10th/[576,700]	10.58	11.30	16.11	7.45	11.06	7.69	10.58	9.38	8.89	6.97	(10.3%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (axis: 0 to 100)
Empirical SGP Distribution (axis: 0 to 100)