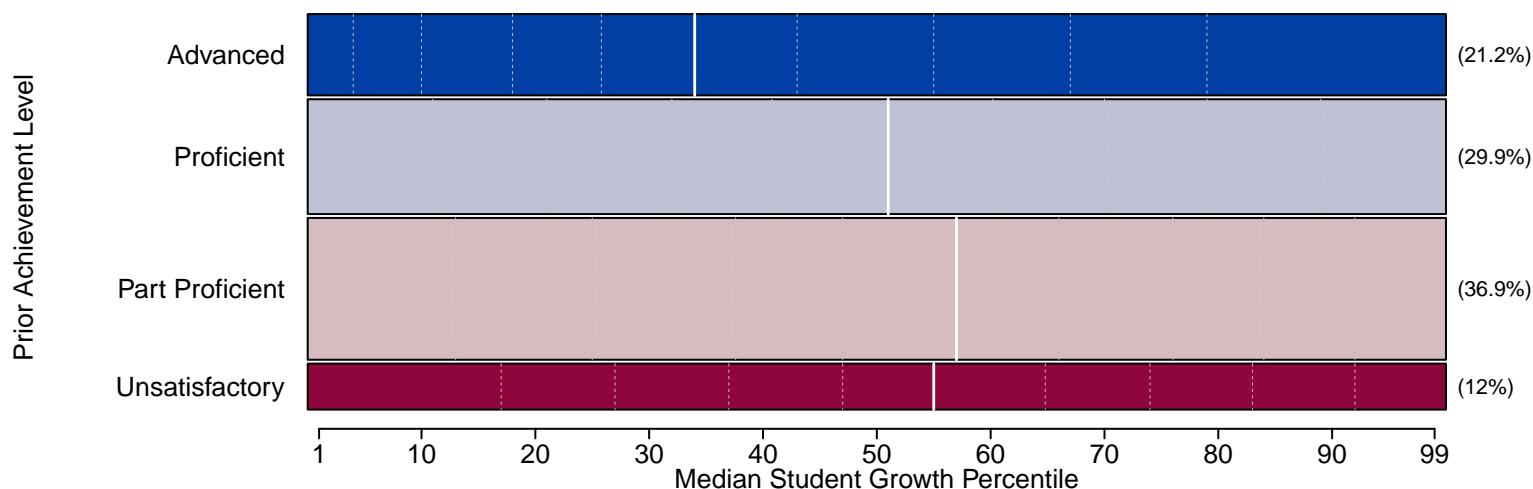# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Mathematics SGP SIMEX Ranked, Grade 8 (N = 4,123)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	Percent
Advanced	(21.2%)
Proficient	(29.9%)
Part Proficient	(36.9%)
Unsatisfactory	(12%)

Median Student Growth Percentile

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:	[310,421]	30.8	15.4	19.2	15.4	3.8	7.7	3.8	3.8	0.0	0.0	0.0	0.0	N = 26
	[421,445]	11.1	7.4	25.9	33.3	18.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[696,707]	11.5	0.0	7.7	0.0	26.9	3.8	3.8	7.7	11.5	15.4	3.8	7.7	N = 26
	[707,890]	0.0	3.4	3.4	3.4	3.4	10.3	10.3	3.4	27.6	20.7	6.9	6.9	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/[280,479)	4.87	8.27	10.95	9.49	10.71	11.92	9.00	11.44	9.98	13.38	(10%)
2nd/[479,506)	5.56	5.81	7.83	8.84	8.59	12.88	11.11	10.35	15.15	13.89	(9.6%)
3rd/[506,525)	7.65	11.11	7.90	8.15	10.62	10.62	8.64	10.37	12.59	12.35	(9.8%)
4th/[525,544)	6.81	6.57	9.62	7.75	12.44	8.92	13.38	10.09	10.09	14.32	(10.3%)
5th/[544,560)	6.55	8.25	9.47	8.25	9.95	10.68	10.44	10.92	11.41	14.08	(10%)
6th/[560,577)	7.89	7.89	7.66	12.68	10.29	10.29	10.53	11.96	11.24	9.57	(10.1%)
7th/[577,595)	8.42	10.40	8.17	11.14	9.41	10.64	9.90	9.65	10.64	11.63	(9.8%)
8th/[595,616)	10.14	12.56	11.11	11.59	10.63	8.94	7.97	10.14	8.70	8.21	(10%)
9th/[616,645)	15.87	12.98	11.54	11.06	9.38	7.45	8.41	10.34	7.45	5.53	(10.1%)
10th/[645,817)	22.80	13.30	13.54	12.83	8.79	7.84	8.79	6.41	4.04	1.66	(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