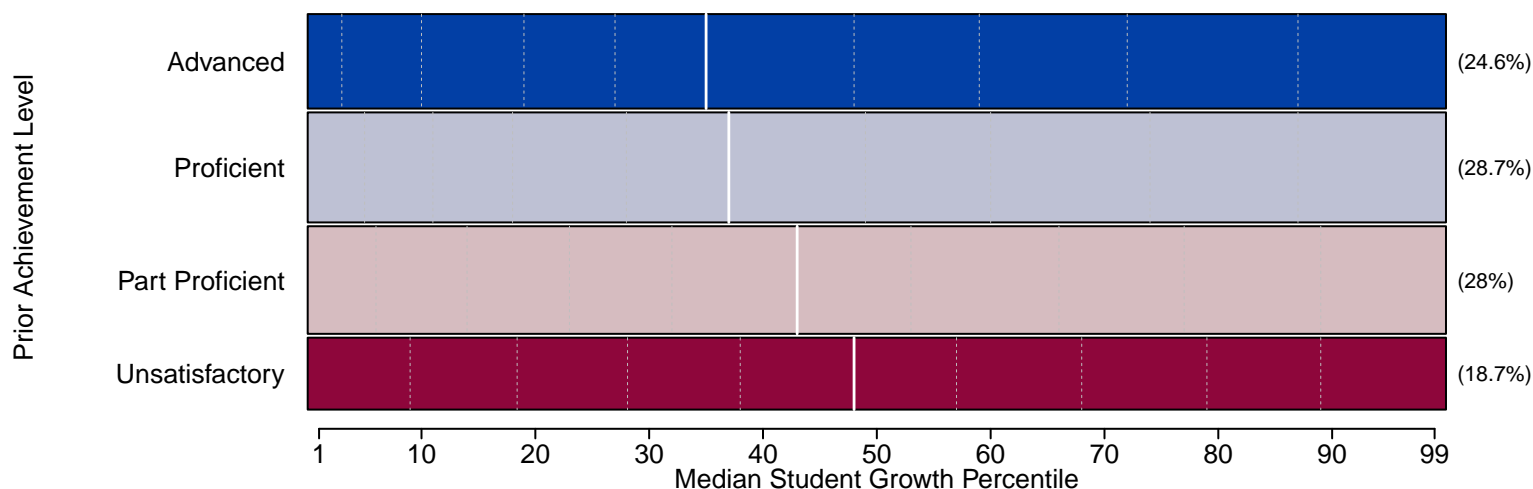# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017 Mathematics SGP SIMEX, Grade 9 (N = 4,101)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	
Advanced	(24.6%)
Proficient	(28.7%)
Part Proficient	(28%)
Unsatisfactory	(18.7%)

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:	[340]	57.7	19.2	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	(340,383]	50.0	8.3	20.8	8.3	4.2	0.0	8.3	0.0	0.0	0.0	0.0	0.0	N = 24
Highest OSS:	[721,739]	0.0	0.0	4.3	0.0	0.0	4.3	17.4	17.4	13.0	21.7	8.7	13.0	N = 23
	[739,789]	3.7	0.0	7.4	0.0	0.0	11.1	11.1	11.1	0.0	14.8	18.5	22.2	N = 27

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/[310,493)	11.11	10.12	11.36	7.90	8.40	8.40	10.62	9.38	12.35	10.37	(9.9%)
2nd/[493,524)	10.59	12.32	8.62	11.08	13.05	10.59	9.61	8.37	8.62	7.14	(9.9%)
3rd/[524,546)	12.47	12.22	12.71	10.27	7.82	10.76	6.36	9.05	6.60	11.74	(10%)
4th/[546,565)	15.95	9.05	12.62	8.33	9.05	9.76	7.14	8.10	11.19	8.81	(10.2%)
5th/[565,581)	18.90	9.97	13.65	7.87	7.09	11.29	7.09	9.97	8.66	5.51	(9.3%)
6th/[581,599)	13.79	15.63	9.43	10.80	8.28	10.57	7.13	6.90	8.28	9.20	(10.6%)
7th/[599,617)	19.85	12.01	11.76	8.82	5.88	8.58	6.86	9.80	8.82	7.60	(9.9%)
8th/[617,639)	17.80	12.44	11.95	10.24	13.17	6.83	8.05	6.59	4.39	8.54	(10%)
9th/[639,667)	20.34	12.83	10.41	9.44	7.99	8.23	8.23	5.57	9.20	7.75	(10.1%)
10th/[667,871]	19.08	10.87	14.01	8.94	6.52	9.18	9.42	7.00	7.49	7.49	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution