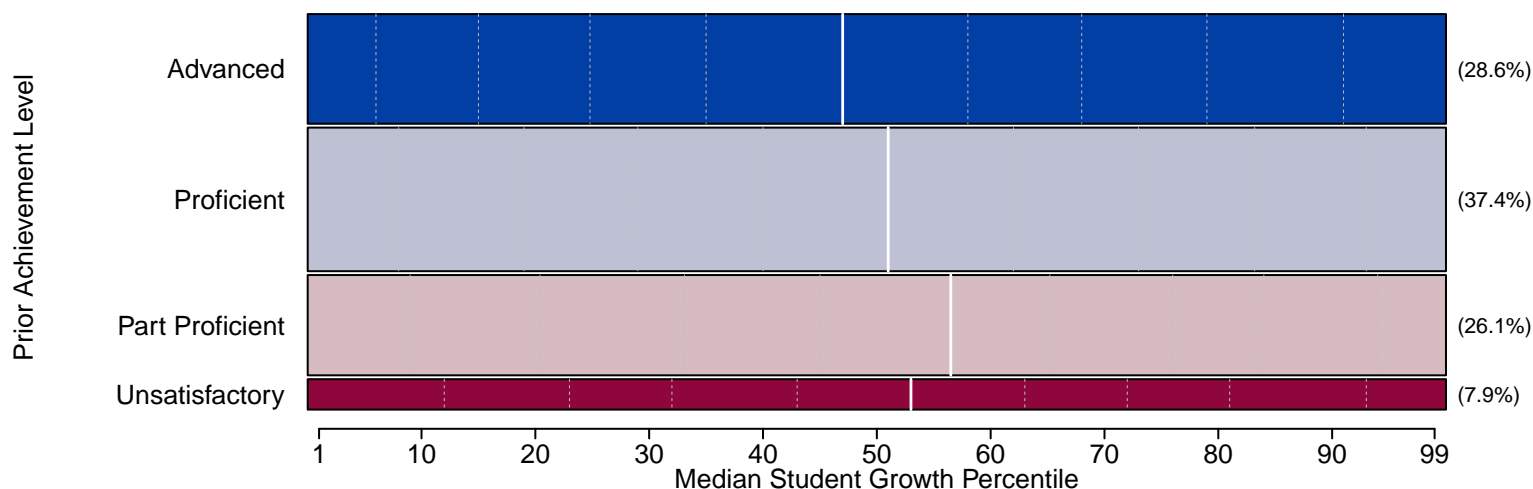# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016 Mathematics SGP SIMEX, Grade 7 (N = 4,051)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (vertical axis):
- Advanced (28.6%)
- Proficient (37.4%)
- Part Proficient (26.1%)
- Unsatisfactory (7.9%)

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:	[280,368]	48.0	16.0	20.0	0.0	4.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[368,400]	42.3	0.0	23.1	7.7	11.5	3.8	3.8	0.0	0.0	0.0	0.0	7.7	N = 26
Highest OSS:	[703,722]	0.0	0.0	0.0	0.0	0.0	8.0	4.0	8.0	20.0	20.0	28.0	12.0	N = 25
	[722,817]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0	28.0	48.0	N = 25

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/[256,464]	8.64	10.37	8.64	8.40	9.38	10.12	8.64	12.59	8.40	14.81	(10%)
2nd/[464,491]	7.93	8.70	7.42	6.91	9.72	9.21	10.74	12.53	11.25	15.60	(9.7%)
3rd/[491,511]	9.90	9.90	9.41	10.15	7.43	10.89	9.41	11.14	8.66	13.12	(10%)
4th/[511,530]	10.10	8.65	9.62	7.69	8.65	7.45	6.97	12.74	11.54	16.59	(10.3%)
5th/[530,547]	13.02	10.81	6.39	8.60	10.07	8.85	8.85	8.85	10.81	13.76	(10%)
6th/[547,565]	11.55	8.85	7.86	9.34	10.81	9.58	10.81	7.62	9.34	14.25	(10%)
7th/[565,585]	11.54	10.26	11.03	7.44	8.72	7.95	10.77	10.00	10.51	11.79	(9.6%)
8th/[585,608]	15.21	10.47	9.73	6.23	8.73	9.98	9.73	8.48	8.23	13.22	(9.9%)
9th/[608,641]	12.77	11.82	10.87	5.44	9.46	9.22	10.40	10.17	8.51	11.35	(10.4%)
10th/[641,830]	16.46	8.85	9.83	10.81	9.34	9.58	8.60	9.83	8.11	8.60	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (top 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