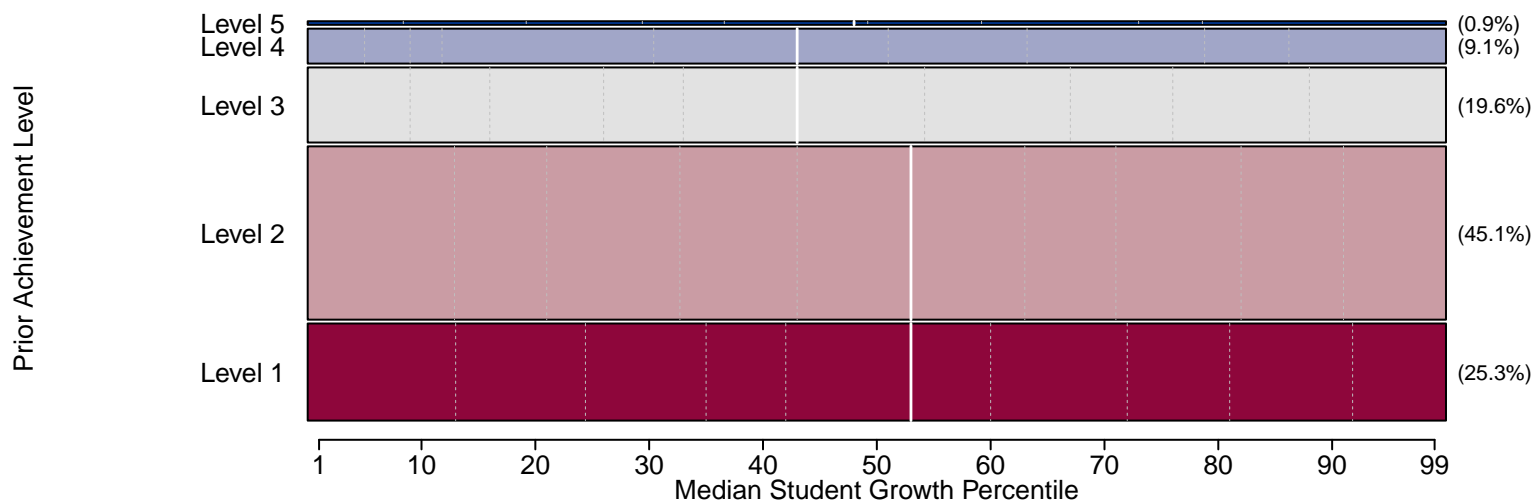# Student Growth Percentile Goodness–of–Fit Descriptives

## 2016–2017.2 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 1,396)

## SGP Deciles by Prior Achievement Level (Geometry)



Prior Achievement Level

- Level 5 (0.9%)
- Level 4 (9.1%)
- Level 3 (19.6%)
- Level 2 (45.1%)
- Level 1 (25.3%)

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: | [−15,−2.43) | 96.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N = 29 |
| | [−2.43,−2.17] | 27.6 | 58.6 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N = 29 |
| Highest OSS: | [2.09,2.51] | 0.0 | 4.2 | 4.2 | 0.0 | 8.3 | 4.2 | 25.0 | 12.5 | 20.8 | 16.7 | 0.0 | 4.2 | N = 24 |
| | [2.51,4.03] | 0.0 | 0.0 | 0.0 | 3.8 | 3.8 | 7.7 | 3.8 | 11.5 | 15.4 | 23.1 | 15.4 | 15.4 | N = 26 |

## 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/[−15,−1.77) | 5.76 | 7.19 | 9.35 | 12.23 | 12.23 | 10.79 | 7.19 | 12.23 | 7.19 | 15.83 | (10%) |
| 2nd/[−1.77,−1.47) | 6.19 | 8.85 | 8.85 | 6.19 | 15.04 | 9.73 | 9.73 | 9.73 | 14.16 | 11.50 | (8.1%) |
| 3rd/[−1.47,−1.23) | 7.36 | 12.88 | 7.98 | 9.82 | 10.43 | 12.27 | 7.36 | 10.43 | 11.66 | 9.82 | (11.7%) |
| 4th/[−1.23,−1.05) | 9.24 | 10.08 | 10.08 | 5.88 | 9.24 | 6.72 | 16.81 | 11.76 | 9.24 | 10.92 | (8.5%) |
| 5th/[−1.05,−0.796) | 13.91 | 10.60 | 9.93 | 8.61 | 7.95 | 9.27 | 10.60 | 7.95 | 9.27 | 11.92 | (10.8%) |
| 6th/[−0.796,−0.61) | 2.65 | 6.62 | 11.26 | 12.58 | 14.57 | 7.95 | 13.91 | 10.60 | 10.60 | 9.27 | (10.8%) |
| 7th/[−0.61,−0.36) | 6.98 | 6.98 | 12.40 | 8.53 | 6.98 | 10.85 | 10.08 | 12.40 | 11.63 | 13.18 | (9.2%) |
| 8th/[−0.36,−0.0701) | 11.33 | 12.67 | 8.67 | 12.00 | 9.33 | 10.00 | 10.00 | 9.33 | 8.00 | 8.67 | (10.7%) |
| 9th/[−0.0701,0.619) | 9.22 | 14.18 | 13.48 | 12.06 | 7.80 | 9.93 | 8.51 | 8.51 | 7.80 | 8.51 | (10.1%) |
| 10th/[0.619,2.54) | 23.57 | 7.86 | 6.43 | 11.43 | 7.14 | 12.14 | 5.71 | 7.86 | 10.71 | 7.14 | (10%) |

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

## QQ–Plot: Student Growth Percentiles



Theoretical SGP Distribution

Empirical SGP Distribution