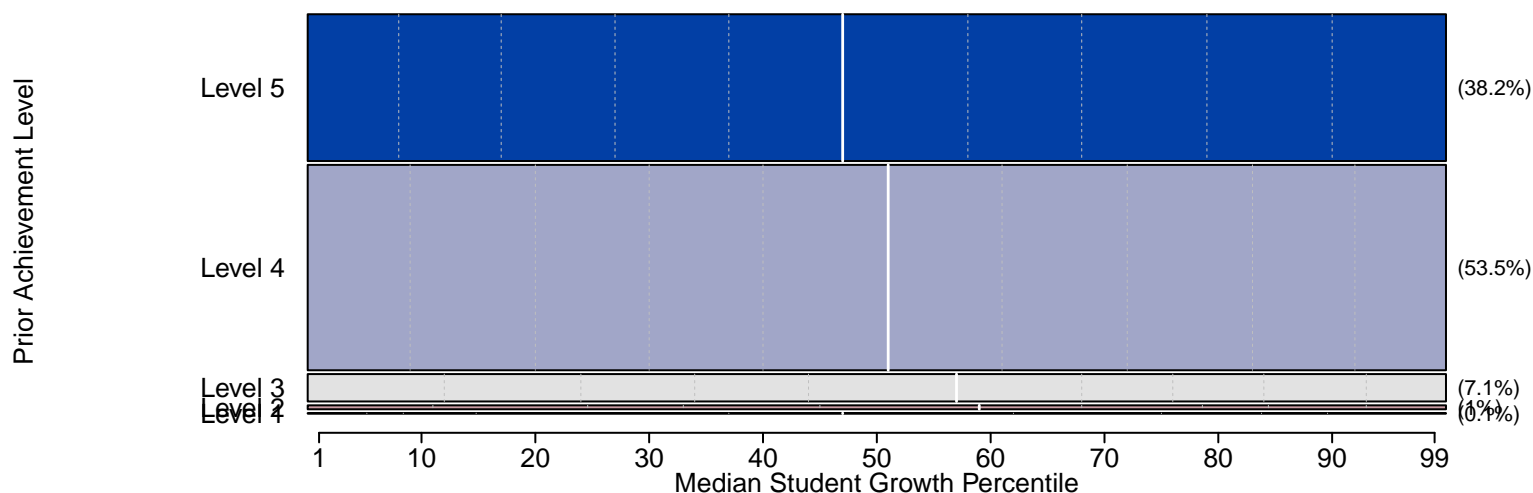# Student Growth Percentile Goodness–of–Fit Descriptives

## 2016–2017.2 Algebra I SGP SIMEX, Grade EOCT (N = 13,479)

### SGP Deciles by Prior Achievement Level (Mathematics)



Prior Achievement Level

- Level 5 (38.2%)
- Level 4 (53.5%)
- Level 3 (7.1%)
- Level 2 (0.1%)
- Level 1 (0.1%)

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,−1.76) | 91.3 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N = 23 |
| | [−1.76,−1.33] | 37.0 | 29.6 | 18.5 | 7.4 | 3.7 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | N = 27 |
| Highest OSS: | [4.58,4.96) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 11.1 | 16.7 | 66.7 | N = 18 |
| | [4.96,7.13] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 7.7 | 10.3 | 79.5 | N = 39 |

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/[−3.67,0.506) | 7.97 | 8.05 | 9.31 | 9.46 | 9.54 | 8.20 | 9.31 | 10.95 | 13.19 | 14.01 | (10%) |
| 2nd/[0.506,0.872) | 10.50 | 8.95 | 8.88 | 9.32 | 9.32 | 10.65 | 10.06 | 9.17 | 9.91 | 13.24 | (10%) |
| 3rd/[0.872,1.12) | 10.02 | 10.17 | 10.10 | 8.91 | 9.50 | 9.65 | 8.24 | 9.13 | 10.76 | 13.51 | (10%) |
| 4th/[1.12,1.34) | 10.67 | 9.71 | 8.75 | 10.35 | 10.27 | 8.83 | 9.79 | 9.39 | 11.24 | 11.00 | (9.2%) |
| 5th/[1.34,1.54) | 9.80 | 9.17 | 11.20 | 9.87 | 8.12 | 9.03 | 9.52 | 10.36 | 10.92 | 12.04 | (10.6%) |
| 6th/[1.54,1.72) | 10.14 | 10.29 | 10.89 | 10.21 | 9.46 | 8.26 | 9.23 | 9.46 | 9.91 | 12.16 | (9.9%) |
| 7th/[1.72,1.95) | 12.28 | 9.87 | 10.01 | 10.45 | 8.70 | 9.28 | 9.14 | 9.72 | 9.65 | 10.89 | (10.1%) |
| 8th/[1.95,2.19) | 9.56 | 11.21 | 9.64 | 9.72 | 9.95 | 9.33 | 10.89 | 9.17 | 9.33 | 11.21 | (9.5%) |
| 9th/[2.19,2.57) | 12.42 | 11.18 | 8.69 | 11.10 | 9.13 | 9.72 | 9.42 | 9.13 | 10.01 | 9.20 | (10.2%) |
| 10th/[2.57,15] | 12.91 | 10.72 | 11.50 | 9.94 | 9.94 | 8.25 | 9.45 | 9.03 | 7.76 | 10.51 | (10.5%) |

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

### QQ–Plot: Student Growth Percentiles



Theoretical SGP Distribution

Empirical SGP Distribution