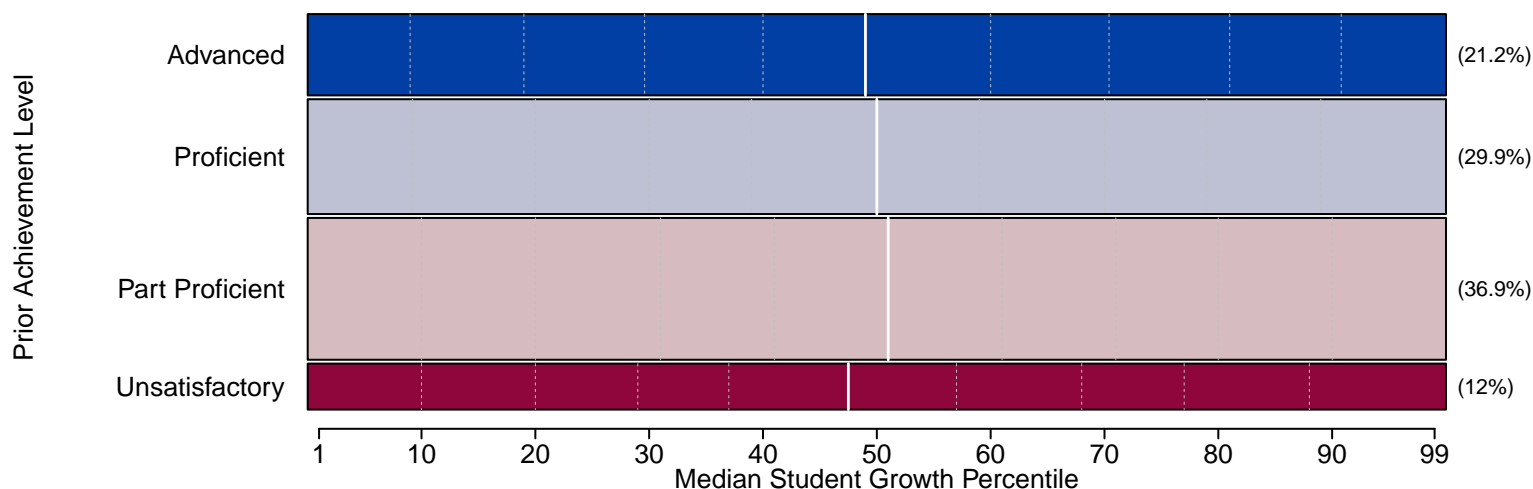# Student Growth Percentile Goodness–of–Fit Descriptives
## 2016–2017 Mathematics SGP, Grade 8 (N = 4,123)

## 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) | 50.0 | 15.4 | 23.1 | 7.7 | 0.0 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N = 26 |
| | [421,445] | 33.3 | 11.1 | 18.5 | 22.2 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N = 27 |
| Highest OSS: | [696,707] | 7.7 | 0.0 | 3.8 | 3.8 | 3.8 | 3.8 | 11.5 | 15.4 | 3.8 | 7.7 | 15.4 | 23.1 | N = 26 |
| | [707,890] | 0.0 | 0.0 | 0.0 | 3.4 | 3.4 | 0.0 | 0.0 | 10.3 | 10.3 | 27.6 | 13.8 | 31.0 | 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) | 10.71 | 9.49 | 11.92 | 10.22 | 10.46 | 9.00 | 9.98 | 10.22 | 9.98 | 8.03 | (10%) |
| 2nd/[479,506) | 9.09 | 7.83 | 9.34 | 10.61 | 10.61 | 11.11 | 10.61 | 9.60 | 11.11 | 10.10 | (9.6%) |
| 3rd/[506,525) | 10.86 | 10.62 | 10.12 | 9.38 | 9.14 | 11.36 | 8.15 | 10.86 | 10.86 | 8.64 | (9.8%) |
| 4th/[525,544) | 7.98 | 9.15 | 10.09 | 9.62 | 10.80 | 9.86 | 11.50 | 11.27 | 8.45 | 11.27 | (10.3%) |
| 5th/[544,560) | 9.47 | 10.92 | 8.74 | 8.25 | 11.41 | 8.98 | 11.65 | 8.98 | 10.19 | 11.41 | (10%) |
| 6th/[560,577) | 10.05 | 8.85 | 10.77 | 11.96 | 9.09 | 11.00 | 8.85 | 10.53 | 10.05 | 8.85 | (10.1%) |
| 7th/[577,595) | 11.39 | 8.42 | 10.64 | 7.92 | 9.41 | 11.63 | 8.17 | 10.15 | 10.15 | 12.13 | (9.8%) |
| 8th/[595,616) | 8.45 | 11.11 | 11.11 | 10.39 | 10.63 | 8.70 | 9.66 | 10.63 | 9.66 | 9.66 | (10%) |
| 9th/[616,645) | 11.78 | 7.45 | 9.62 | 12.02 | 8.89 | 8.41 | 9.38 | 11.54 | 9.38 | 11.54 | (10.1%) |
| 10th/[645,817) | 9.50 | 11.64 | 9.74 | 8.31 | 11.88 | 9.74 | 9.03 | 8.79 | 10.69 | 10.69 | (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