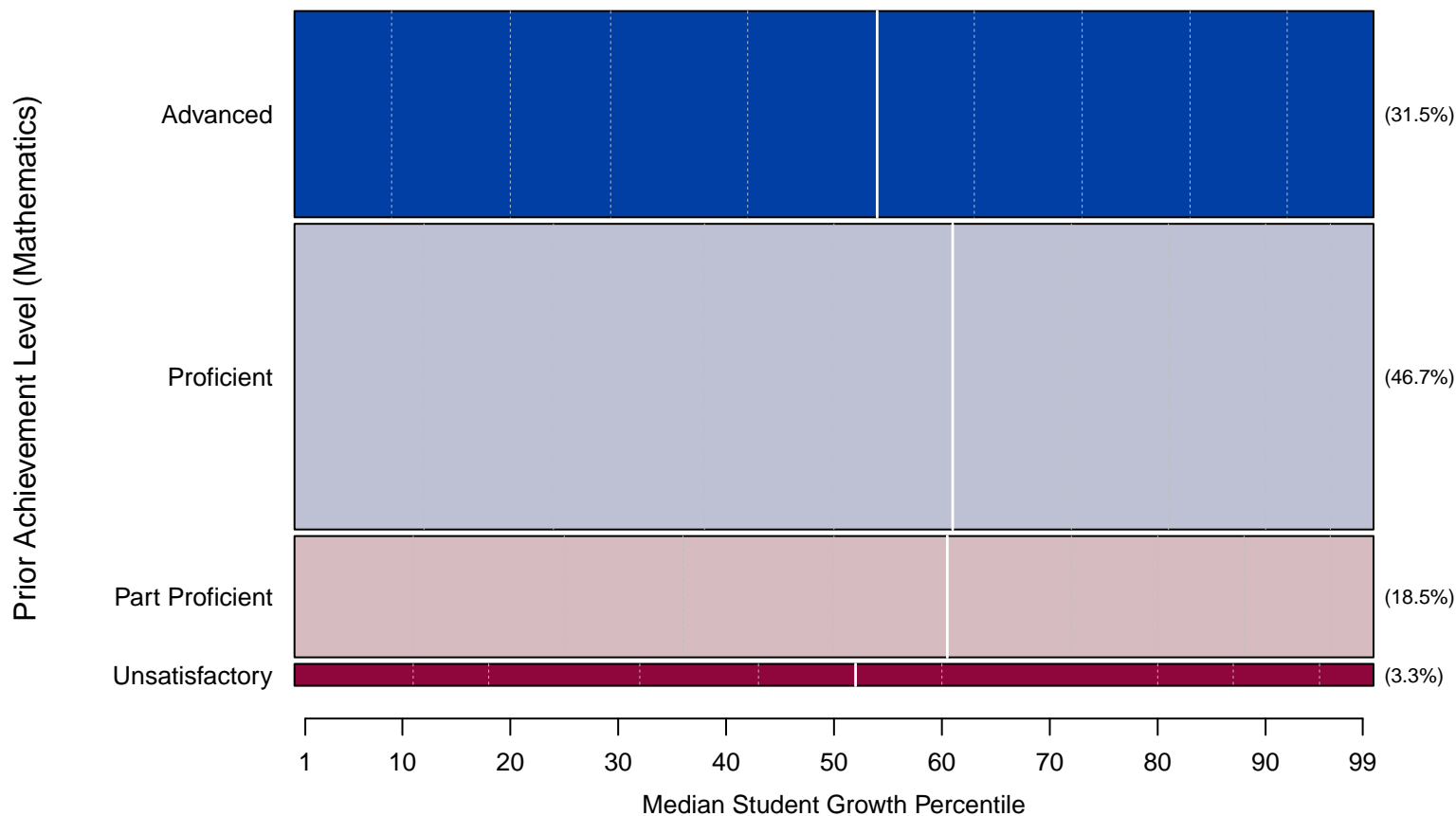# Student Growth Percentile Goodness–of–Fit Descriptives

## 2010–2011 Mathematics SGP SIMEX, Grade 5 (N = 4,040)

### SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

| Level | Percentage |
|---|---|
| Advanced | (31.5%) |
| Proficient | (46.7%) |
| Part Proficient | (18.5%) |
| Unsatisfactory | (3.3%) |

Median Student Growth Percentile

(x-axis: 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99)

### Student Growth Percentile Range

Prior Scale Score Decile/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/[212,421] | 6.20 | 10.42 | 8.68 | 8.44 | 8.93 | 9.18 | 7.94 | 8.68 | 12.66 | 18.86 | (10%) |
| 2nd/[421,450] | 9.30 | 8.29 | 7.54 | 8.54 | 7.54 | 10.30 | 7.29 | 11.06 | 11.56 | 18.59 | (9.9%) |
| 3rd/[450,471] | 8.38 | 4.57 | 6.85 | 9.64 | 8.88 | 9.14 | 10.66 | 11.93 | 11.68 | 18.27 | (9.8%) |
| 4th/[471,488] | 8.23 | 5.24 | 8.48 | 6.48 | 9.23 | 9.23 | 9.98 | 9.48 | 11.72 | 21.95 | (9.9%) |
| 5th/[488,506] | 8.75 | 11.58 | 7.80 | 4.96 | 7.09 | 8.75 | 7.80 | 10.64 | 12.53 | 20.09 | (10.5%) |
| 6th/[506,522] | 7.38 | 9.41 | 6.87 | 6.36 | 7.38 | 9.92 | 8.40 | 13.23 | 10.18 | 20.87 | (9.7%) |
| 7th/[522,540] | 8.84 | 7.83 | 9.09 | 7.83 | 8.33 | 8.59 | 8.84 | 9.09 | 14.65 | 16.92 | (9.8%) |
| 8th/[540,561] | 11.66 | 9.18 | 11.17 | 5.46 | 9.43 | 10.67 | 9.68 | 6.45 | 10.17 | 16.13 | (10%) |
| 9th/[561,592] | 11.72 | 7.42 | 9.81 | 8.13 | 8.85 | 7.66 | 9.57 | 12.44 | 11.48 | 12.92 | (10.3%) |
| 10th/[592,780] | 10.71 | 9.25 | 9.49 | 8.27 | 6.33 | 11.44 | 11.92 | 12.17 | 9.25 | 11.19 | (10.2%) |

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

### QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

(x-axis: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100)

Empirical SGP Distribution

(y-axis: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100)