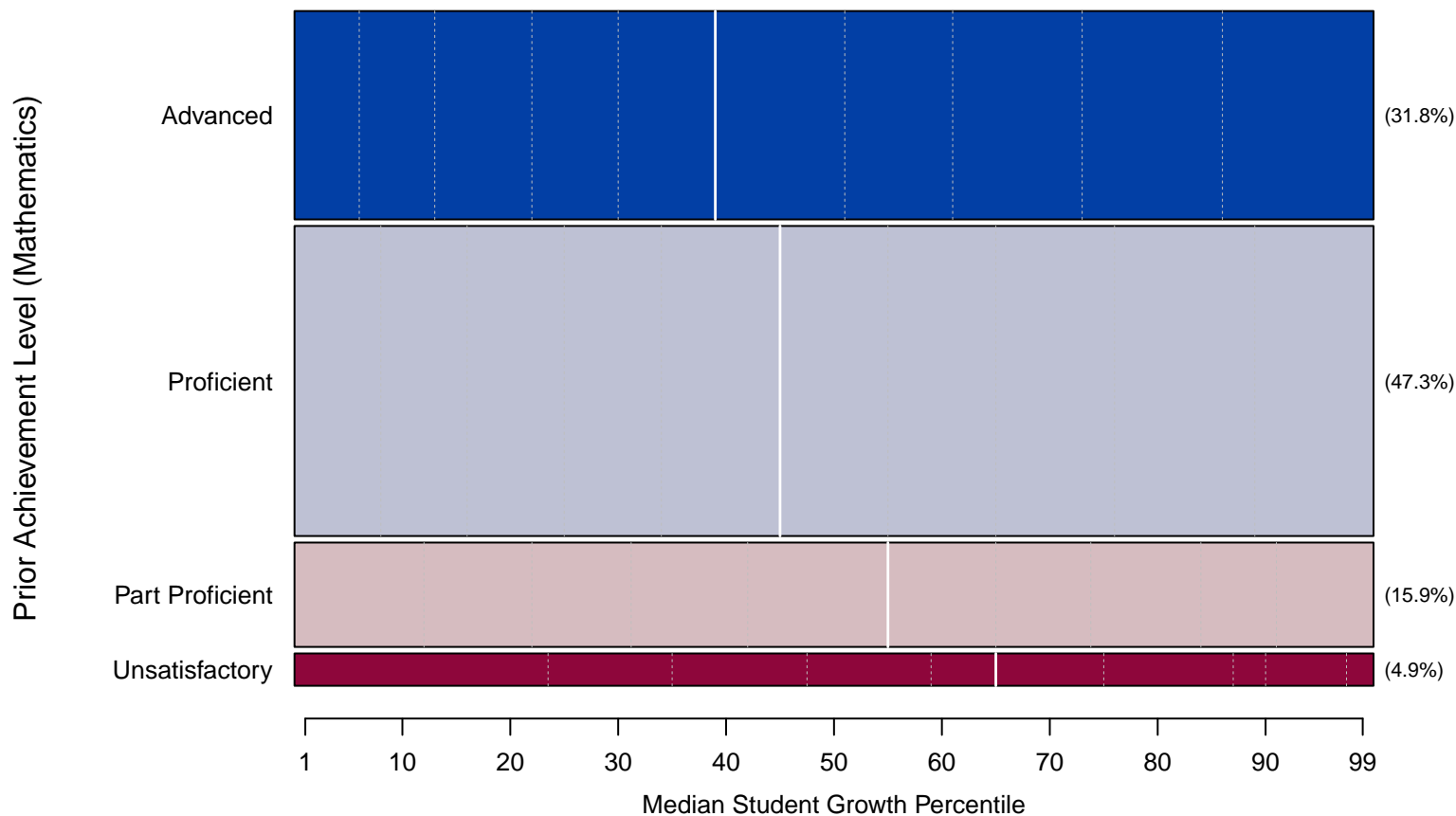# Student Growth Percentile Goodness–of–Fit Descriptives
## 2011–2012 Mathematics SGP SIMEX, Grade 5 (N = 4,175)

## SGP Deciles by Prior Achievement Level



Prior Achievement Level (Mathematics)

- Advanced (31.8%)
- Proficient (47.3%)
- Part Proficient (15.9%)
- Unsatisfactory (4.9%)

Median Student Growth Percentile

## 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/[180,419] | 4.12 | 6.54 | 8.47 | 8.23 | 7.02 | 10.41 | 12.11 | 10.41 | 15.74 | 16.95 | (9.9%) |
| 2nd/[419,452] | 8.89 | 11.06 | 10.34 | 10.58 | 7.93 | 9.38 | 9.62 | 11.06 | 9.86 | 11.30 | (10%) |
| 3rd/[452,475] | 6.43 | 10.71 | 10.00 | 7.86 | 9.76 | 10.48 | 11.19 | 10.71 | 10.00 | 12.86 | (10.1%) |
| 4th/[475,492] | 13.24 | 12.50 | 8.09 | 9.80 | 12.01 | 9.56 | 7.60 | 6.86 | 8.58 | 11.76 | (9.8%) |
| 5th/[492,508] | 14.19 | 12.79 | 15.35 | 11.40 | 9.53 | 6.74 | 10.00 | 9.30 | 4.88 | 5.81 | (10.3%) |
| 6th/[508,525] | 11.81 | 10.84 | 9.40 | 11.33 | 10.36 | 9.88 | 9.40 | 9.64 | 8.92 | 8.43 | (9.9%) |
| 7th/[525,541] | 14.90 | 10.58 | 10.58 | 9.86 | 9.38 | 11.06 | 8.17 | 9.86 | 7.93 | 7.69 | (10%) |
| 8th/[541,561] | 14.69 | 13.98 | 15.64 | 10.19 | 9.48 | 7.82 | 5.69 | 6.87 | 8.29 | 7.35 | (10.1%) |
| 9th/[561,592] | 18.05 | 11.95 | 10.00 | 10.49 | 7.56 | 10.00 | 10.98 | 7.32 | 7.32 | 6.34 | (9.8%) |
| 10th/[592,780] | 12.47 | 12.24 | 10.82 | 11.29 | 7.06 | 11.53 | 8.94 | 7.53 | 11.06 | 7.06 | (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