

BALTIMORE CITY  

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PUBLIC SCHOOLS

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**Stanford 10**  
**School Year 2010-11**

# Stanford 10: Measuring Our Youngest Students' Skills

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- Maryland school districts choose the test they use to measure student achievement in the 1<sup>st</sup> and 2<sup>nd</sup> grades.
- City Schools uses the Stanford Achievement Test 10—a nationally “normed” test that shows how students in a given school district perform compared to a national sample group.
- Using National Percentile ranks, the Stanford 10 directly compares individuals or groups to the norming population, making it a proxy for national performance
- The test measures 1<sup>st</sup>- and 2<sup>nd</sup>-grade skills in reading and math
- The test is *not* tied to federal accountability standards for student achievement, which don't start until the 3<sup>rd</sup> grade.

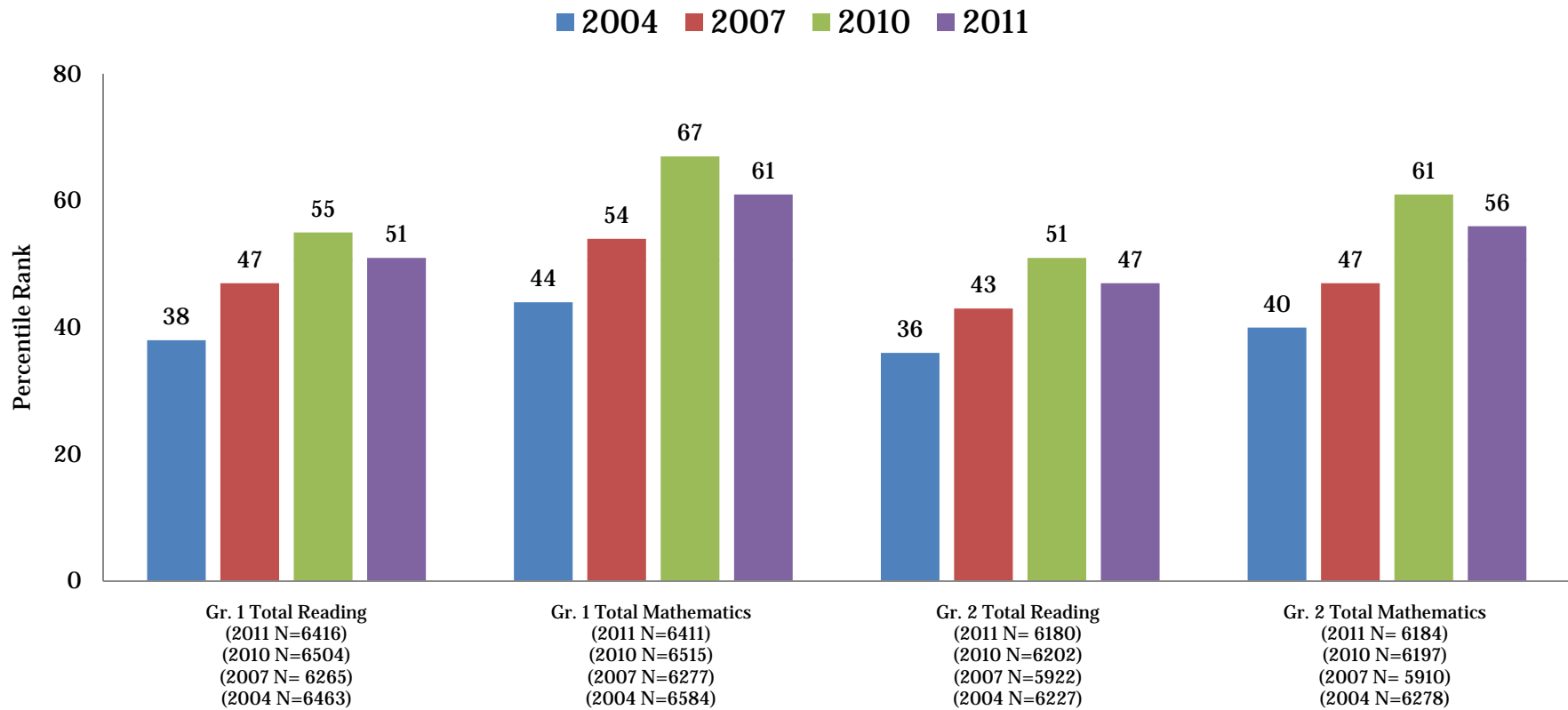
# 2011 Stanford 10 Results: City Schools Students Competitive Nationally

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- City Schools' 2011 Stanford 10 results represent a dip in scores from 2010 across both subjects and grades.
- But for the second straight year in 2011, City Schools students came in right at—and in some cases well above—the 50<sup>th</sup> percentile, outperforming more than half their peers nationally:
  - 1<sup>st</sup> graders above the 50<sup>th</sup> national percentile in reading and math
  - 2<sup>nd</sup> graders above the 50<sup>th</sup> national percentile in math, almost at the 50<sup>th</sup> percentile in reading
- The 2011 results continue the growth-over-time trend City Schools has established since 2007, the year before the transformation of the district began.
- The 2011 results confirm pre-k as a key factor in sustained achievement throughout the early elementary grades.

# Percentile Rank Results

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**Reading Grade 1: Percentage Pts**  
 Change 2010 to 2011: **-4**  
 Change 2007 to 2011: **+4**  
 Change 2004 to 2011: **+13**

**Math Grade 1: Percentage Pts**  
 Change 2010 to 2011: **-6**  
 Change 2007 to 2011: **+7**  
 Change 2004 to 2011: **+17**

**Reading Grade 2: Percentage Pts**  
 Change 2010 to 2011: **-4**  
 Change 2007 to 2011: **+4**  
 Change 2004 to 2011: **+11**

**Math Grade 2: Percentage Pts**  
 Change 2010 to 2011: **-5**  
 Change 2007 to 2011: **+9**  
 Change 2004 to 2011: **+16**

# Interpreting the Results: What Percentile Ranks Tell Us

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- On the Stanford 10, small changes in performance spur large changes in percentile rankings.
- City Schools' 2011 results show declines of four to six percentile points from 2010 to 2011.
- Because of how percentile ranks are calculated, these dips reflect minor shifts in performance from one year to the next.
- For example:

*City Schools' 2<sup>nd</sup>-grade students answered, on average, 1.9 fewer questions correctly on the reading test in 2011 than in 2010—70 out of 100 compared to 71.9 out of 100. This resulted in a four-point drop in national percentile ranking, from 51 last year to 47 this year.*

# How two fewer correct questions can lead to a four-point drop ...

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## Number of correct questions and National Percentile Rankings of 2<sup>nd</sup> Grade Students for 2010 and 2011

Tested subject	Year	# of Test Takers	# Questions on the test	Average # of questions correct	National Percentile (NP)
Reading 2 <sup>nd</sup> Grade	2011	6181	100	70	47
	2010	6196	100	71.9	51
Math 2 <sup>nd</sup> Grade	2011	6185	74	53.3	56
	2010	6201	74	54.9	61

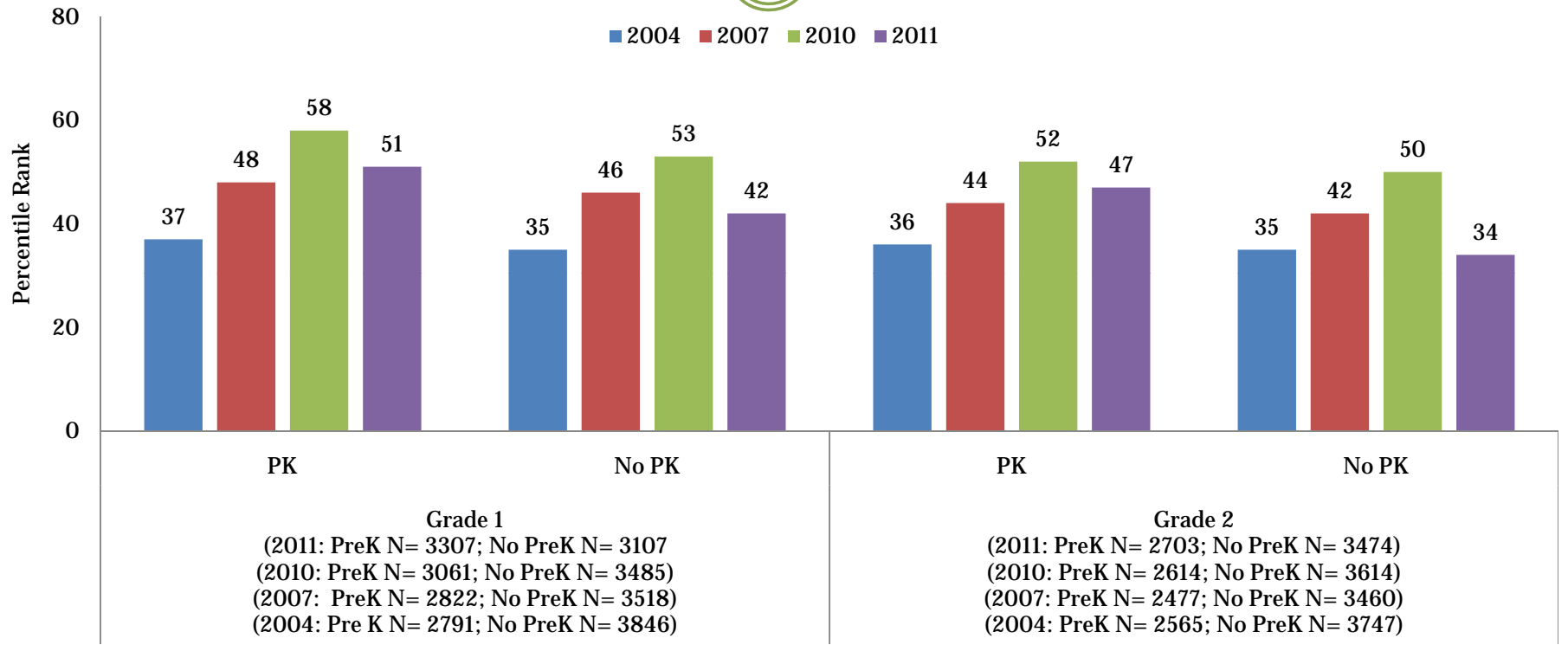
In 2011 City Schools 2nd graders answered on average **2 fewer Reading questions correctly** ( $71.9 - 70 = 1.9$ ) than in 2010, and their NP ranking is **4 points lower**.

In 2011 City Schools 2nd graders answered on average **2 fewer Math questions correctly** ( $54.9 - 53.3 = 1.6$ ) than in 2010, and their NP ranking is **5 points lower**.

\* Number of questions varies by grade and subject. 100 questions for 2<sup>nd</sup> grade reading; 74 questions for 2<sup>nd</sup> grade math.

# Students With Pre-k Perform Better Over Time in Reading

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Grade 1 City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: -7  
 Change 2007 to 2011: +3  
 Change 2004 to 2011: +14

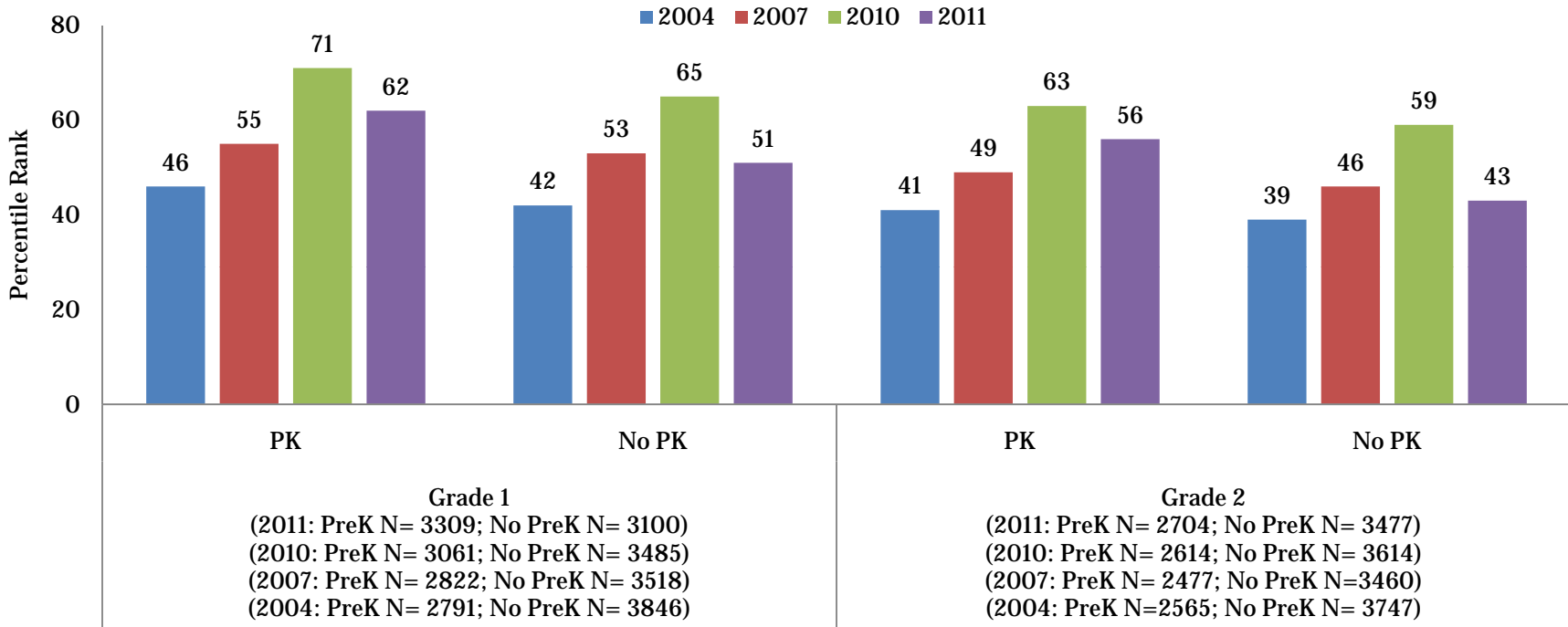
Grade 1 No City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: -11  
 Change 2007 to 2011: -4  
 Change 2004 to 2011: +7

Grade 2 City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: -5  
 Change 2007 to 2011: +3  
 Change 2004 to 2011: +11

Grade 2 No City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: -16  
 Change 2007 to 2011: -8  
 Change 2004 to 2011: -1

# Students With Pre-k Perform Better Over Time in Math

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Grade 1 City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: **-9**  
 Change 2007 to 2011: **+7**  
 Change 2004 to 2011: **+16**

No City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: **-14**  
 Change 2007 to 2011: **-2**  
 Change 2004 to 2011: **+9**

City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: **-7**  
 Change 2007 to 2011: **+7**  
 Change 2004 to 2011: **+15**

No City Schools PreK Exposure: Percentage Pts  
 Change 2010 to 2011: **-16**  
 Change 2007 to 2011: **-3**  
 Change 2004 to 2011: **+4**