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Deputy Commissioner  
National Center for Education Statistics

December 8, 2009

The   
**Nation's**  
Report Card

# Mathematics 2009

TRIAL URBAN DISTRICT ASSESSMENT  
RESULTS AT GRADES 4 AND 8



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NATIONAL CENTER FOR  
EDUCATION STATISTICS

Institute of Education Sciences

**EMBARGOED until  
December 8, 2009  
10:00 a.m. E.D.T.**

# **Trial Urban District Assessment (TUDA) Background**

- Collaboration among National Center for Education Statistics, National Assessment Governing Board, and Council of the Great City Schools
- Voluntary participation by selected districts varying in location and demographic makeup
- Common yardstick to compare district performance

# Trial Urban District Assessment Map



2009

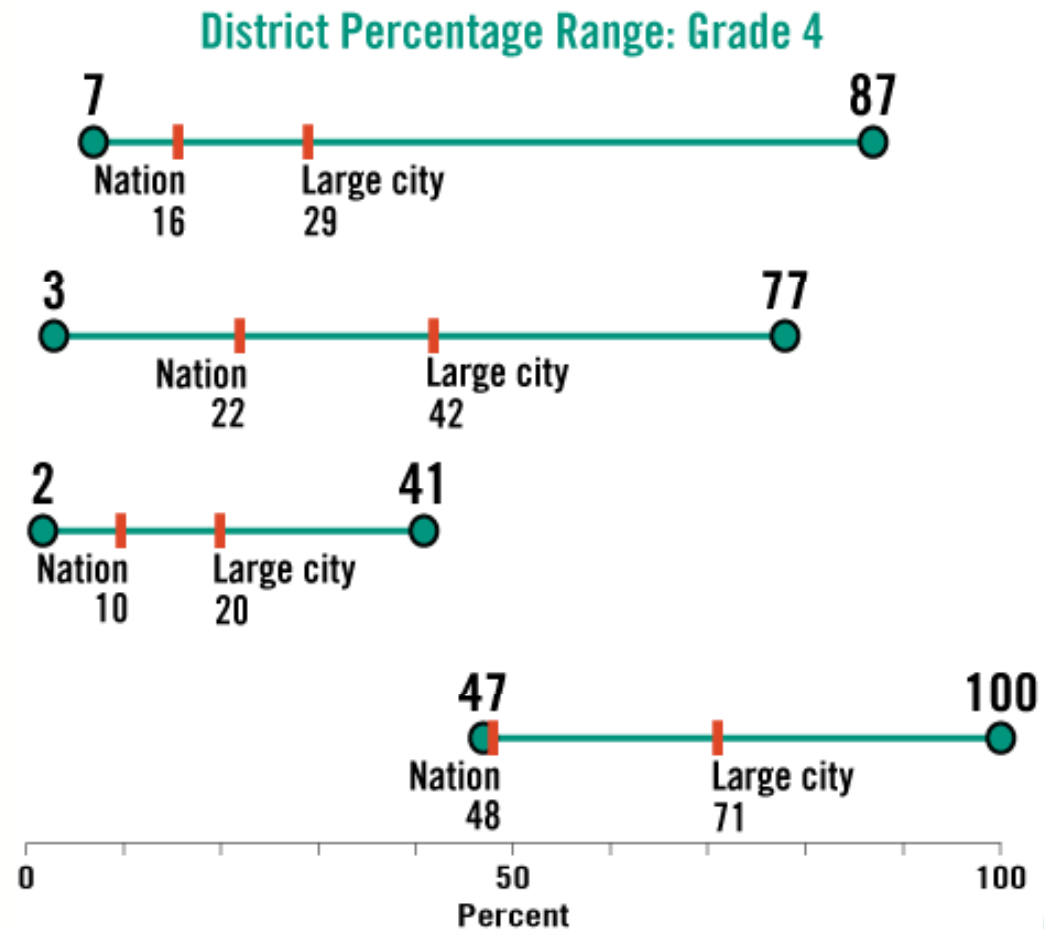
## Overview

- Approximately 900 to 2,200 students were assessed per district at each grade
- Results reported as
  - Average scale scores (on a 0–500 scale)
  - Percentage at or above achievement levels
- Compared to public school students in
  - The nation
  - Large cities, a peer group for comparison (cities of 250,000 or more)

## Demographic Context

- Urban districts have a wide range of student demographics

- Black students
- Hispanic students
- English language learners
- Students from lower-income families





# Mathematics 2009

TRIAL URBAN DISTRICT ASSESSMENT RESULTS AT **GRADE 4**

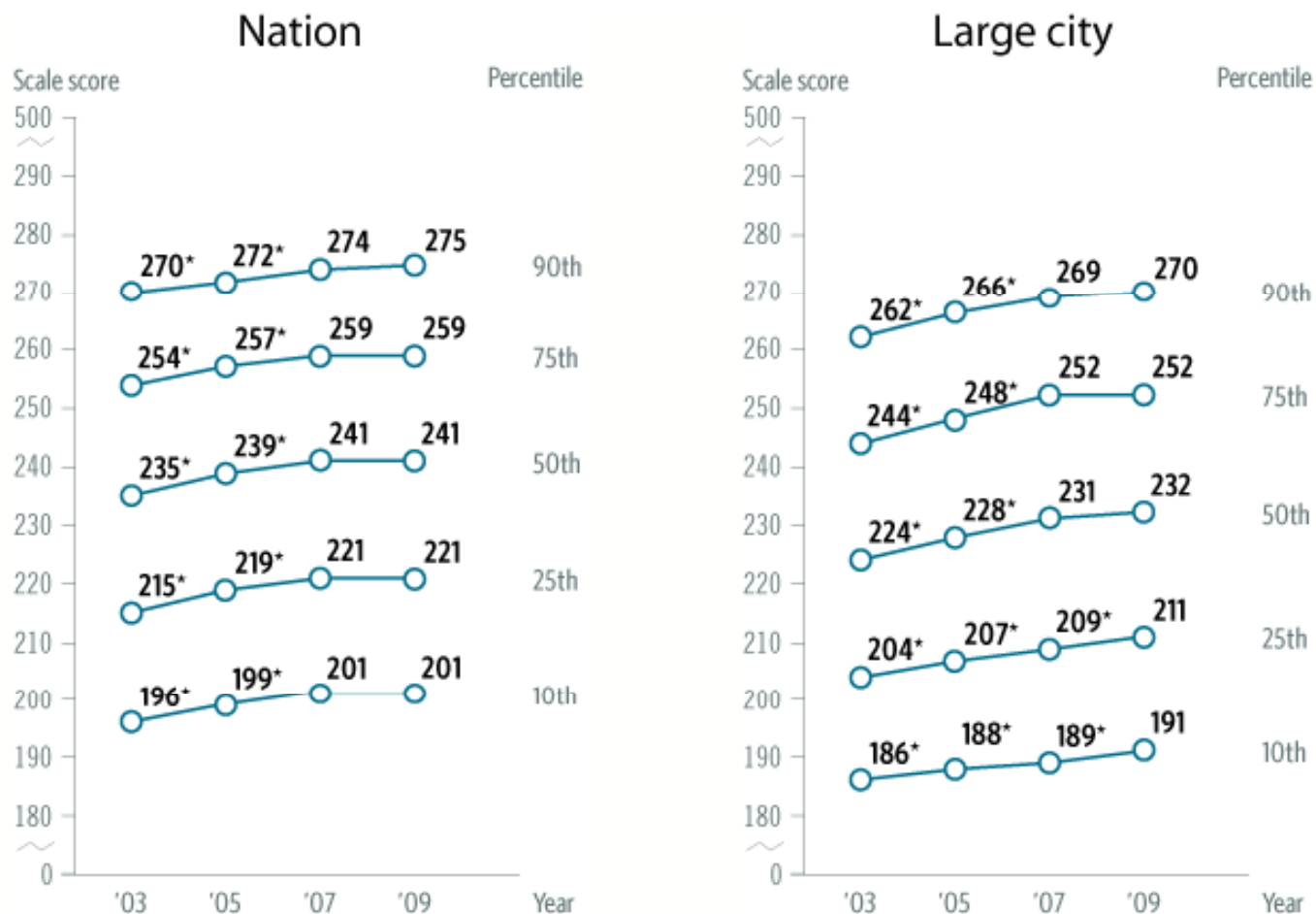
## Scores increase since 2007 for large cities and two districts

	Since 2003	Since 2007
<b>Nation</b>	↑	↔
<b>Large city</b>	↑	↑
Atlanta	↑	↔
Austin	—	↔
Boston	↑	↑
Charlotte	↔	↔
Chicago	↑	↔
Cleveland	↔	↔
District of Columbia (DCPS)	↑	↑
Houston	↑	↔
Los Angeles	↑	↔
New York City	↑	↔
San Diego	↑	↔

- ↑ Indicates the score was higher in 2009.
- ↔ Indicates no significant change in the score in 2009.
- District did not participate in 2003.

NOTE: Beginning in 2009, if the results for charter schools are not included in the school district's Adequate Yearly Progress (AYP) report to the U.S. Department of Education under the Elementary and Secondary Education Act, they are excluded from that district's TUDA results. DCPS = District of Columbia Public Schools.

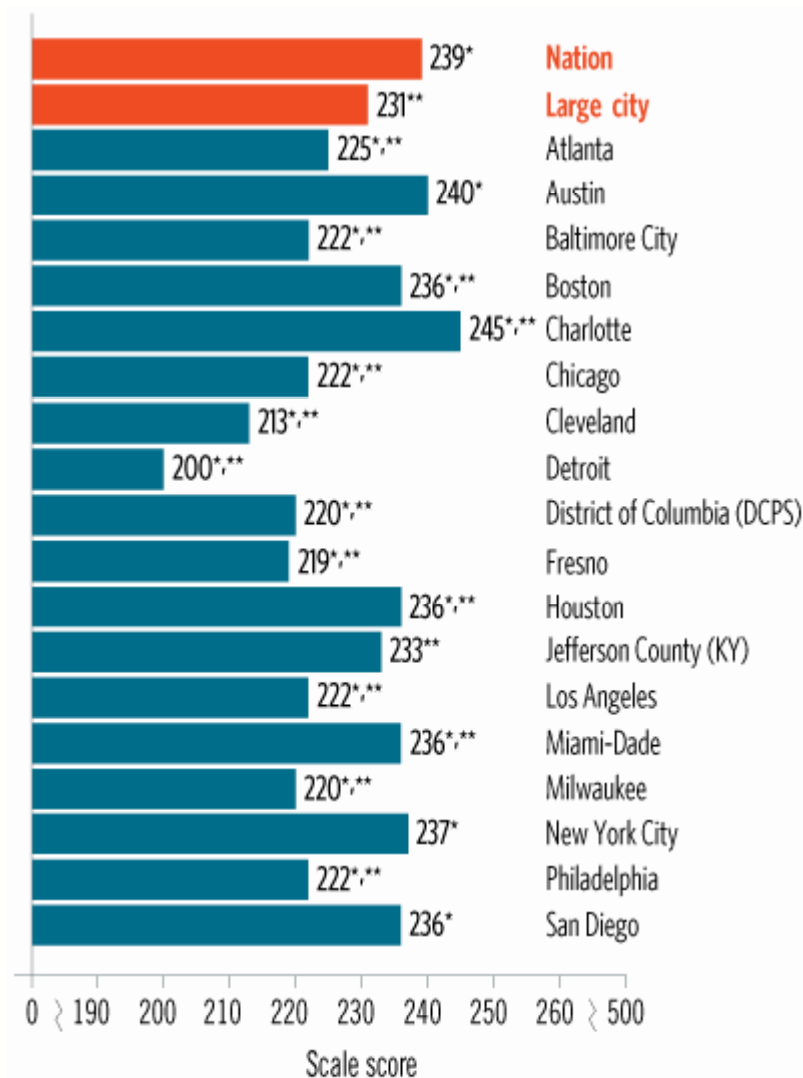
# Gains since 2007 for lower-performing students in large cities



\* Significantly different ( $p < .05$ ) from 2009.

## How districts compare to the nation and large cities

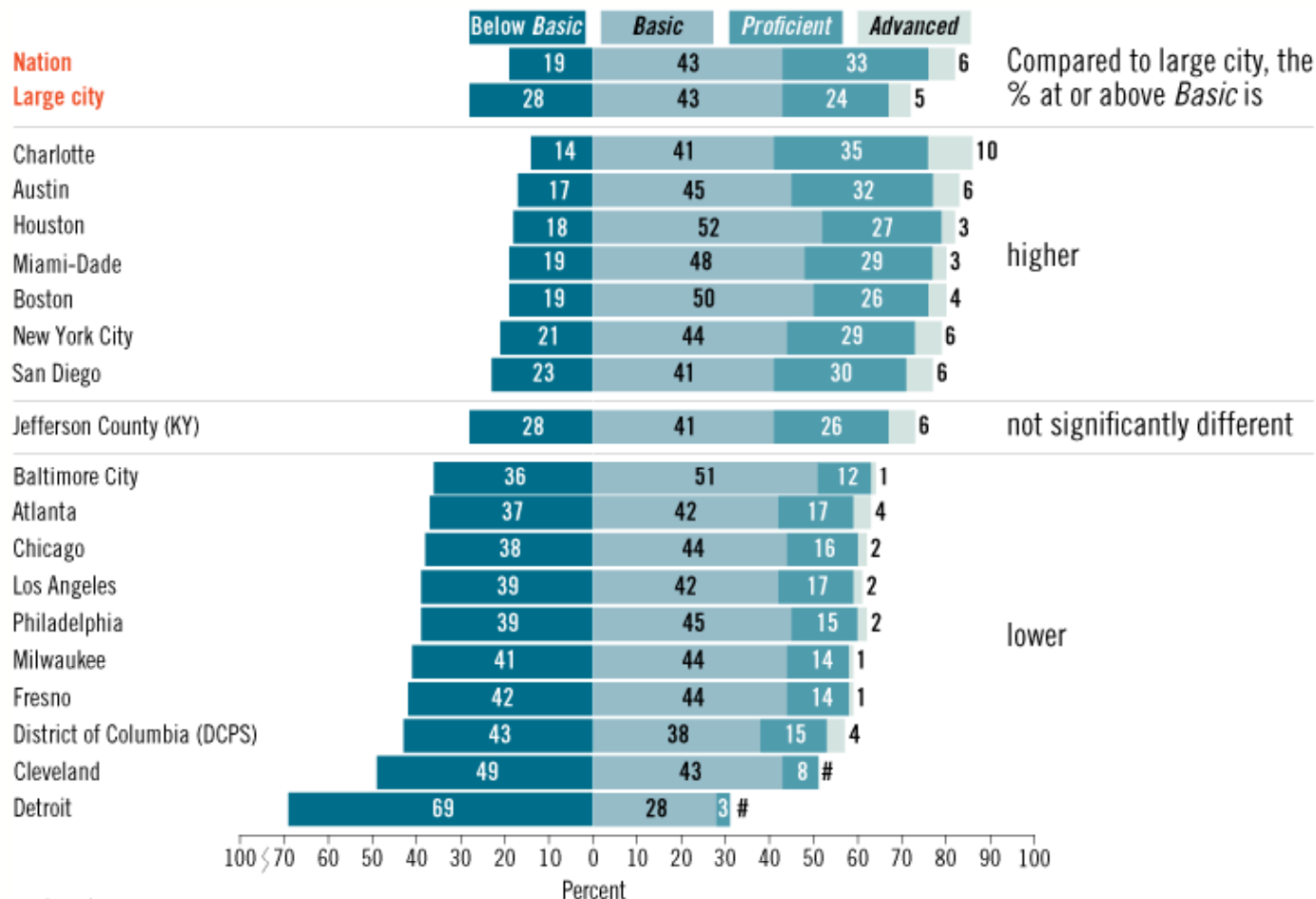
- One district scores higher than the nation
- Seven districts score higher than large cities
- Ten districts score lower than the nation and large cities



\* Significantly different ( $p < .05$ ) from large city.

\*\* Significantly different ( $p < .05$ ) from the nation.

# Percentages at or above *Basic* range from 31 to 86 percent



# Rounds to zero.

NOTE: Detail may not sum to totals because of rounding.

# TRIAL URBAN DISTRICT ASSESSMENT RESULTS AT **GRADE 4**

WHITE	BLACK	HISPANIC	ASIAN/PACIFIC ISLANDER
National average score 248	222	227	255
<b>Atlanta</b> <b>Austin</b> <b>Charlotte</b> <b>District of Columbia (DCPS)</b> <b>Houston</b> <b>Miami-Dade</b> <b>New York City</b> <b>San Diego</b> Boston Chicago Los Angeles Milwaukee Baltimore City Cleveland Fresno Jefferson County (KY) Philadelphia	<b>Boston</b> <b>Charlotte</b> <b>Houston</b> <b>New York City</b> Austin Baltimore City Miami-Dade San Diego <b>Atlanta</b> <b>Chicago</b> <b>Cleveland</b> <b>Detroit</b> <b>District of Columbia (DCPS)</b> <b>Fresno</b> <b>Jefferson County (KY)</b> <b>Los Angeles</b> <b>Milwaukee</b> <b>Philadelphia</b>	<b>Austin</b> <b>Boston</b> <b>Charlotte</b> <b>Houston</b> <b>Miami-Dade</b> <b>New York City</b> Atlanta Chicago District of Columbia (DCPS) Jefferson County (KY) Milwaukee San Diego Cleveland Detroit Fresno Los Angeles Philadelphia	<b>Houston</b> Boston Charlotte Chicago New York City <b>Fresno</b> <b>Los Angeles</b> <b>Milwaukee</b> <b>Philadelphia</b> San Diego

- Indicates the district scored higher than the nation.
- Indicates no significant difference between the district and the nation.
- Indicates the district scored lower than the nation.

NOTE: Only those districts with student groups large enough to report results are listed.  
DCPS = District of Columbia Public Schools.

# TRIAL URBAN DISTRICT ASSESSMENT RESULTS AT **GRADE 4**

Jurisdiction	Overall	Race/ethnicity			
		White	Black	Hispanic	Asian/Pacific Islander
<b>Nation</b>	<b>239</b>	<b>248</b>	<b>222</b>	<b>227</b>	<b>255</b>
<b>Large city</b>	▼	▲	▼	◆	◆
Atlanta	▼	▲	▼	◆	‡
Austin	◆	▲	◆	▲	‡
Baltimore City	▼	▼	◆	‡	‡
Boston	▼	◆	▲	▲	◆
Charlotte	▲	▲	▲	▲	◆
Chicago	▼	◆	▼	◆	◆
Cleveland	▼	▼	▼	▼	‡
Detroit	▼	‡	▼	▼	‡
District of Columbia (DCPS)	▼	▲	▼	◆	‡
Fresno	▼	▼	▼	▼	▼
Houston	▼	▲	▲	▲	▲
Jefferson County (KY)	▼	▼	▼	◆	‡
Los Angeles	▼	◆	▼	▼	▼
Miami-Dade	▼	▲	◆	▲	‡
Milwaukee	▼	◆	▼	◆	▼
New York City	◆	▲	▲	▲	◆
Philadelphia	▼	▼	▼	▼	▼
San Diego	◆	▲	◆	◆	▼

▲ Higher average score than the nation.

▼ Lower average score than the nation.

◆ No significant difference between the district and the nation.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

## Sample 4th-Grade Question in Number Properties and Operations

$$\begin{array}{r} 301 \\ -75 \\ \hline \end{array}$$

- (A) 226
- (B) 235
- (C) 236
- (D) 374

### More than 60% correct

- Austin, Boston, Charlotte, Fresno, Houston, New York City, San Diego

### Between 50% and 60% correct

- Baltimore City, Chicago, District of Columbia (DCPS), Los Angeles, Miami-Dade, Milwaukee, Philadelphia

### Less than 50% correct

- Atlanta, Cleveland, Detroit, Jefferson County (KY)

# TRIAL URBAN DISTRICT ASSESSMENT RESULTS AT **GRADE 4**

District	Scale score	Question Description
	500	
	~	
<b>Proficient</b>	<b>249</b>	
Charlotte	245	
	243	Subtract a two-digit number from a three-digit number
Austin	240	
<b>Nation</b>	<b>239</b>	
New York City	237	Determine a ratio from a diagram
Boston/Houston/ Miami-Dade/San Diego	236	
Jefferson County (KY)	233	Determine the value of an unknown in a number sentence
<b>Large city</b>	<b>231</b>	
	230	Use place value to write a number
	228	Determine how many given pieces cover a shape
Atlanta	225	
Baltimore City/Chicago/ Los Angeles/Philadelphia	222	Make a pictograph of the given information
District of Columbia (DCPS)/ Milwaukee	220	
Fresno	219	
<b>Basic</b>	<b>214</b>	
Cleveland	213	
	202	Identify an appropriate unit for measuring length
Detroit	200	
	199	Find the unknown in a whole number sentence
	~	
	0	

The background of the slide features a close-up photograph of an open notebook with white pages. A yellow pencil with a red eraser is positioned diagonally across the right page. The top portion of the slide is overlaid with a solid maroon color.

# Mathematics 2009

TRIAL URBAN DISTRICT ASSESSMENT RESULTS AT **GRADE 8**

## Scores increase since 2007 for large cities and two districts

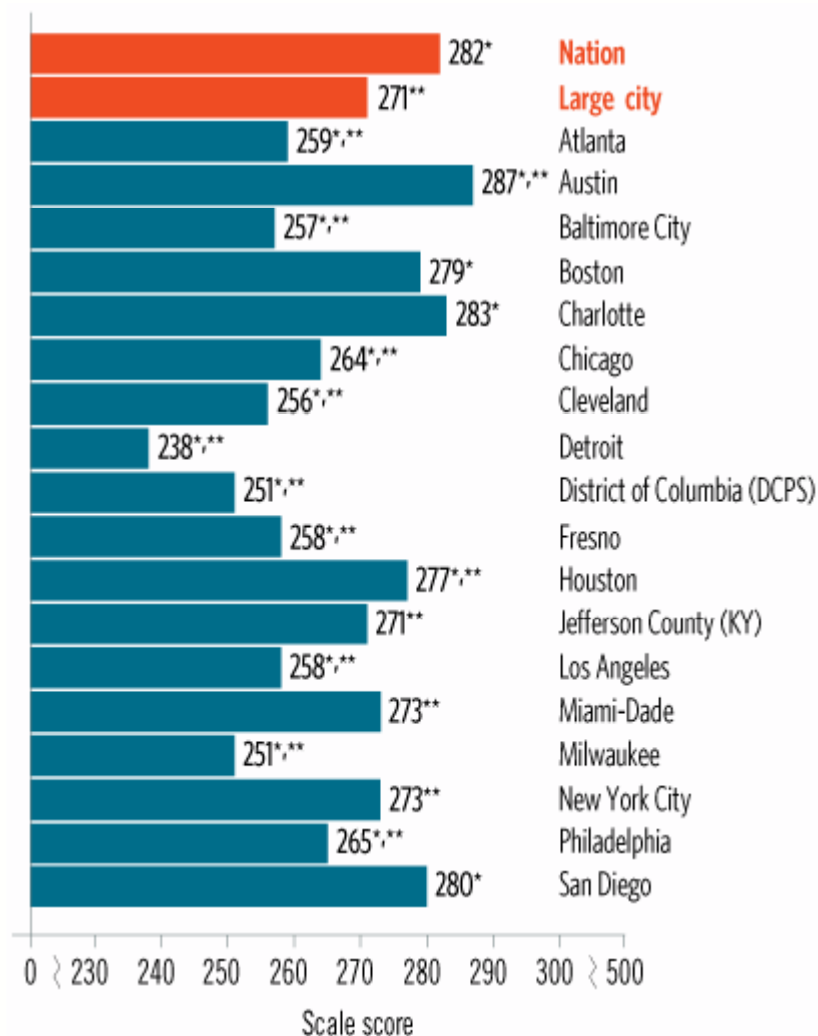
	Since 2003	Since 2007
<b>Nation</b>	↑	↑
<b>Large city</b>	↑	↑
Atlanta	↑	↔
Austin	—	↑
Boston	↑	↔
Charlotte	↑	↔
Chicago	↑	↔
Cleveland	↔	↔
District of Columbia (DCPS)	↑	↔
Houston	↑	↔
Los Angeles	↑	↔
New York City	↑	↔
San Diego	↑	↑

- ↑ Indicates the score was higher in 2009.
- ↔ Indicates no significant change in the score in 2009.
- District did not participate in 2003.

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## How districts compare to the nation and large cities

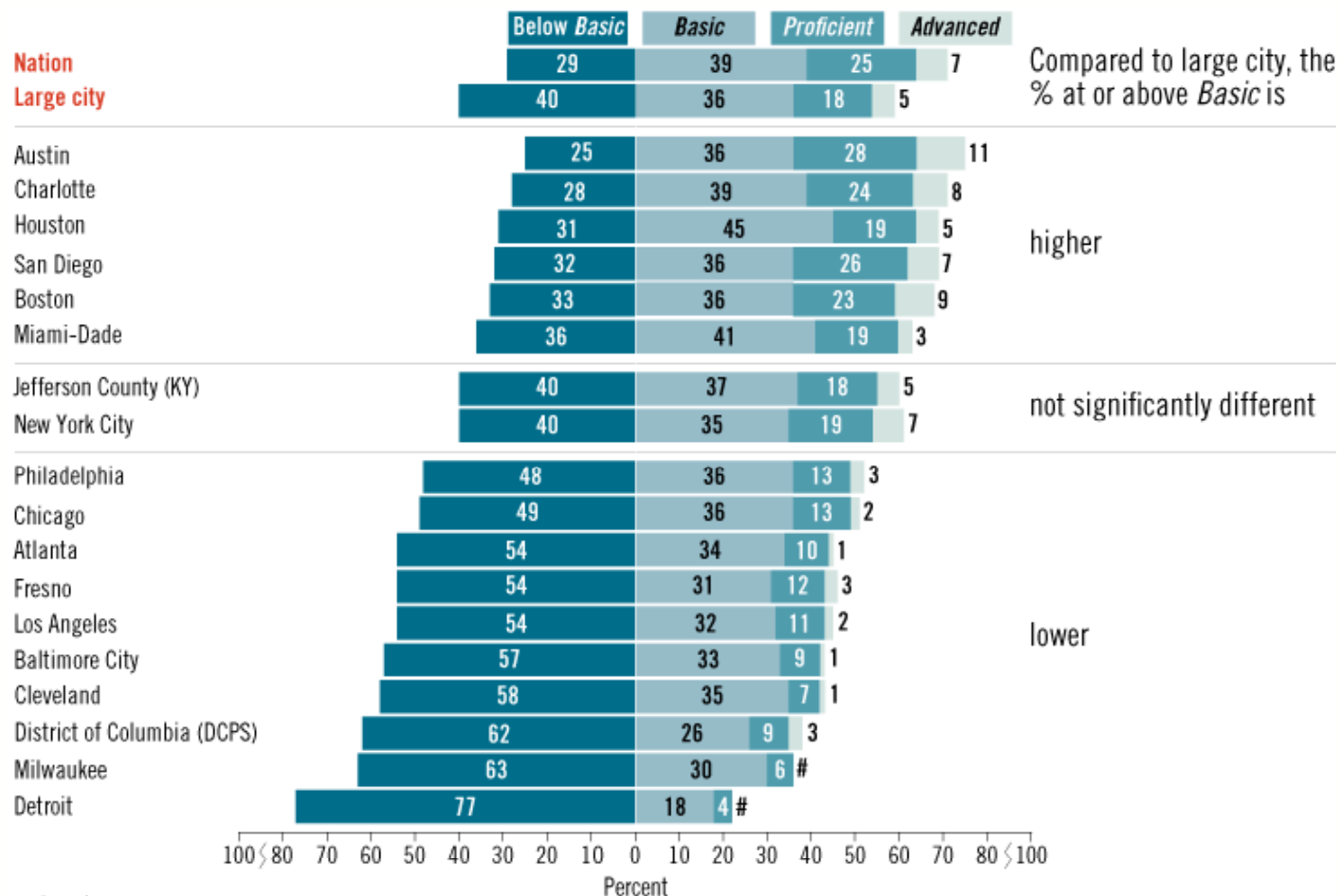
- One district scores higher than the nation
- Five districts score higher than large cities
- Ten districts score lower than the nation and large cities



\* Significantly different ( $p < .05$ ) from large city.

\*\* Significantly different ( $p < .05$ ) from the nation.

# Percentages at or above *Basic* range from 23 to 75 percent



# Rounds to zero.

NOTE: Detail may not sum to totals because of rounding.

# TRIAL URBAN DISTRICT ASSESSMENT RESULTS AT **GRADE 8**

Jurisdiction	Overall	Eligible for free/reduced-price school lunch
<b>Nation</b>	<b>282</b>	<b>266</b>
<b>Large city</b>	▼	▼
Atlanta	▼	▼
Austin	▲	▲
Baltimore City	▼	▼
Boston	◆	▲
Charlotte	◆	◆
Chicago	▼	▼
Cleveland	▼	▼
Detroit	▼	▼
District of Columbia (DCPS)	▼	▼
Fresno	▼	▼
Houston	▼	▲
Jefferson County (KY)	▼	▼
Los Angeles	▼	▼
Miami-Dade	▼	◆
Milwaukee	▼	▼
New York City	▼	▲
Philadelphia	▼	▼
San Diego	◆	◆

▲ Higher average score than the nation.  
 ▼ Lower average score than the nation.  
 ◆ No significant difference between the district and the nation.

## Sample 8th-Grade Question in Data Analysis, Statistics, and Probability

Marty has 6 red pencils, 4 green pencils, and 5 blue pencils. If he picks out one pencil without looking, what is the probability that the pencil he picks will be green?

- (A) 1 out of 3
- (B) 1 out of 4
- (C) 1 out of 15
- (D) 4 out of 15

### More than 70% correct

- Austin, Boston, Charlotte, Houston, Jefferson County (KY), New York City

### Between 60% and 70% correct

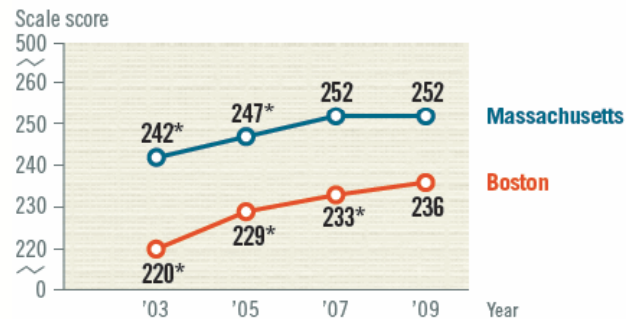
- Atlanta, Baltimore City, Cleveland, District of Columbia (DCPS), Miami-Dade, Milwaukee, Philadelphia, San Diego

### Less than 60% correct

- Chicago, Detroit, Fresno, Los Angeles

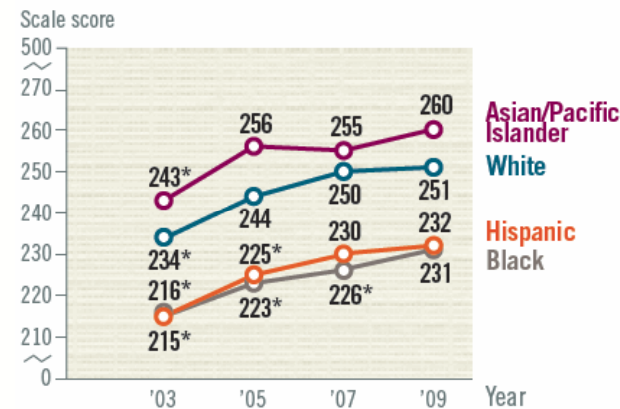
# Highlights of District Profiles

Trend in NAEP mathematics average scores for fourth-graders in Boston and Massachusetts



\* Significantly different ( $p < .05$ ) from 2009.

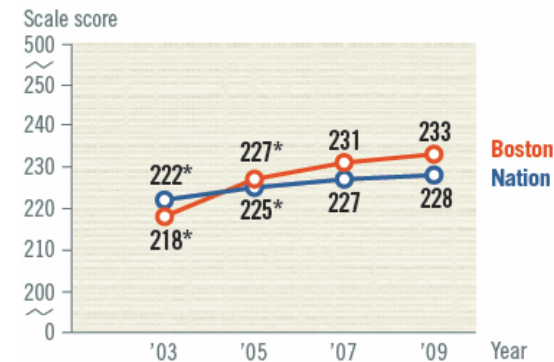
Trend in NAEP mathematics average scores for fourth-graders in Boston, by race/ethnicity



\* Significantly different ( $p < .05$ ) from 2009.

NOTE: Results are not shown for all race/ethnicity categories because of insufficient sample sizes. Black includes African American, Hispanic includes Latino, and Pacific Islander includes Native Hawaiian. Race categories exclude Hispanic origin.

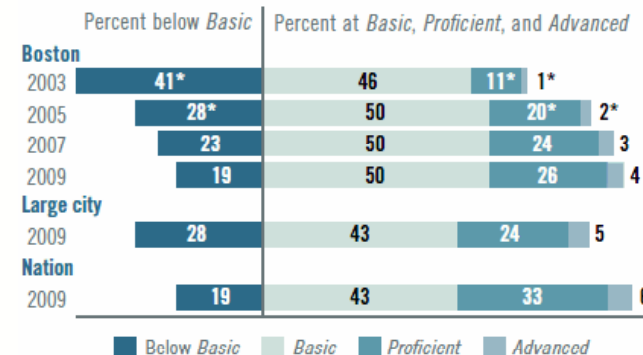
Trend in NAEP mathematics average scores for lower-income fourth-graders in Boston and the nation



\* Significantly different ( $p < .05$ ) from 2009.

NOTE: In NAEP, lower-income students are students identified as eligible for the National School Lunch Program.

Trend in NAEP mathematics achievement-level results for fourth-graders in Boston



\* Significantly different ( $p < .05$ ) from 2009.

NOTE: Detail may not sum to totals because of rounding.

## For More Information

<http://nationsreportcard.gov>

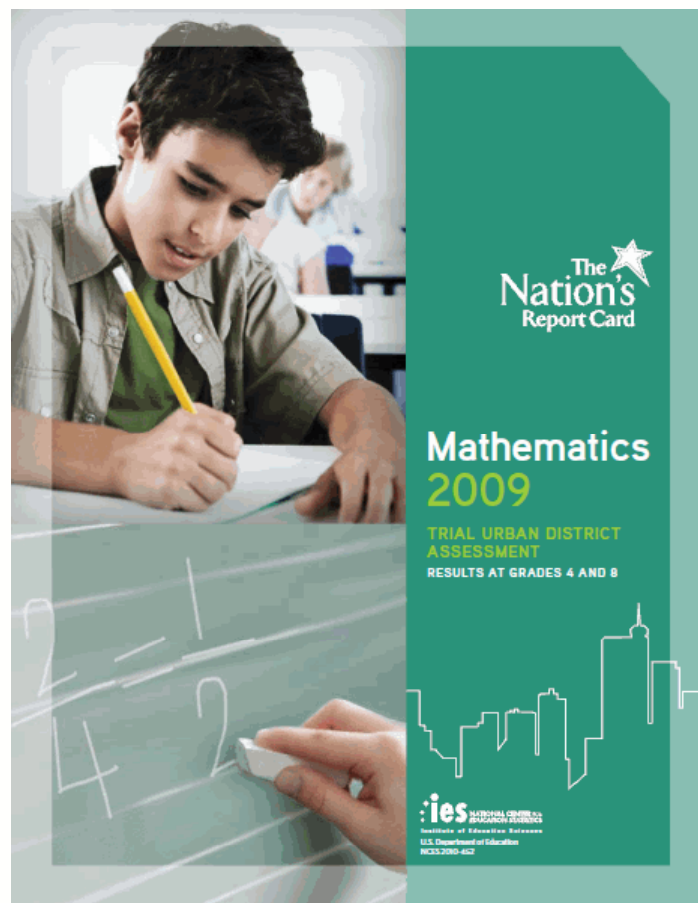


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