

**Hull Public Schools
Legacy MCAS
&
Next-Generation MCAS
Presentation
Grades 3 - 12**

November 13, 2017

Judith Kuehn, Assistant Superintendent of Schools

Michael Devine, Superintendent of Schools

Presentation Outline

Performance Level Trends

Growth Model Explanation

Median Growth Trends

Review of 2017 Assessments

Schools	Assessment
Hull High School	
Grade 9 Introductory Physics	Legacy MCAS
Grade 10 ELA and Math	Legacy MCAS
Memorial Middle School	
Grade 6 ELA and Math	Next-Generation MCAS
Grade 7 ELA and Math	Next-Generation MCAS
Grade 8 ELA and Math	Next-Generation MCAS
Grade 8 Science and Technology	Legacy MCAS
Jacobs Elementary School	
Grade 3 Reading and Math	Next-Generation MCAS
Grade 4 ELA and Math	Next-Generation MCAS
Grade 5 ELA and Math	Next-Generation MCAS
Grade 5 Science and Technology	Legacy MCAS

Next-Generation MCAS

- Focused on **critical thinking, application of knowledge, connections between reading and writing**
- Updated to reflect expectations in revised learning standards
- **Established standards for each achievement level**; without standard setting, can't say whether someone met expectations, only whether they answered an individual question right or wrong
- Sets high expectations to better reflect if students are on track for the next grade level and for college and career



Interpreting the Projected Results

- New standards for Meeting Expectations are **more rigorous than** the standards for reaching the Proficient level on Legacy MCAS
- **Spring 2017 is the baseline year** — the first year of a new assessment
- Over time more students are likely to score Meeting Expectations or above as occurred when the Legacy MCAS debuted in 1998
- Legacy MCAS scores **should not** be compared to previous years' scores
- Consistency of the scoring standards is one benefit of creating the entire grades 3-8 Next-Generation MCAS at once

MCAS Achievement Levels

Legacy

Advanced

Students at this level demonstrate a comprehensive and in-depth understanding of rigorous subject matter, and provide sophisticated solutions to complex problems.

Proficient

Students at this level demonstrate a solid understanding of challenging subject matter and solve a wide variety of problems.

Needs Improvement

Students at this level demonstrate a partial understanding of subject matter and solve some simple problems.

Warning

Students at this level demonstrate a minimal understanding of subject matter and do not solve simple problems.

Next-Generation

- **Exceeding Expectations**

A student who performed at this level exceeded grade-level expectations by demonstrating mastery of the subject matter.

- **Meeting Expectations**

A student who performed at this level met grade-level expectations and is academically on track to succeed in the current grade in this subject.

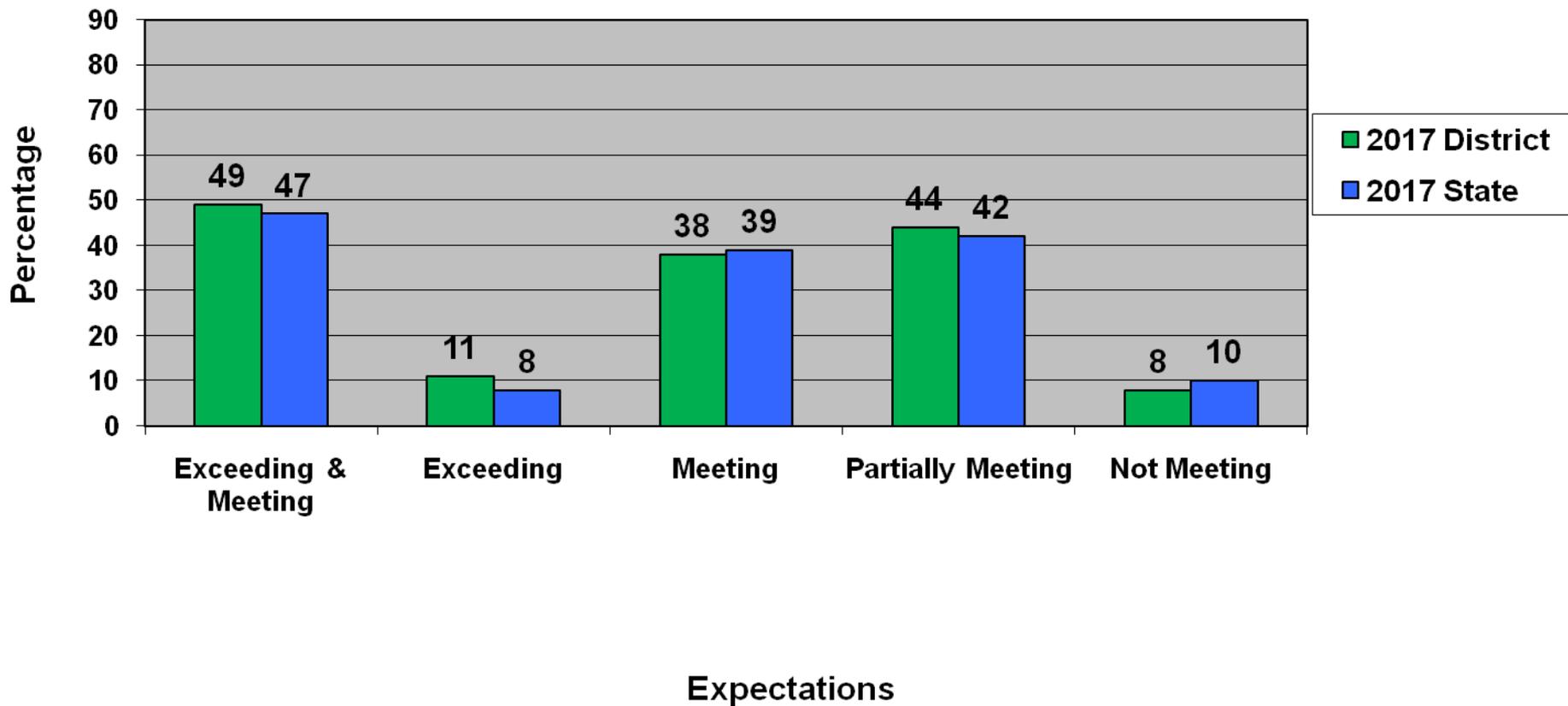
- **Partially Meeting Expectations**

A student who performed at this level partially met grade-level expectations in this subject.

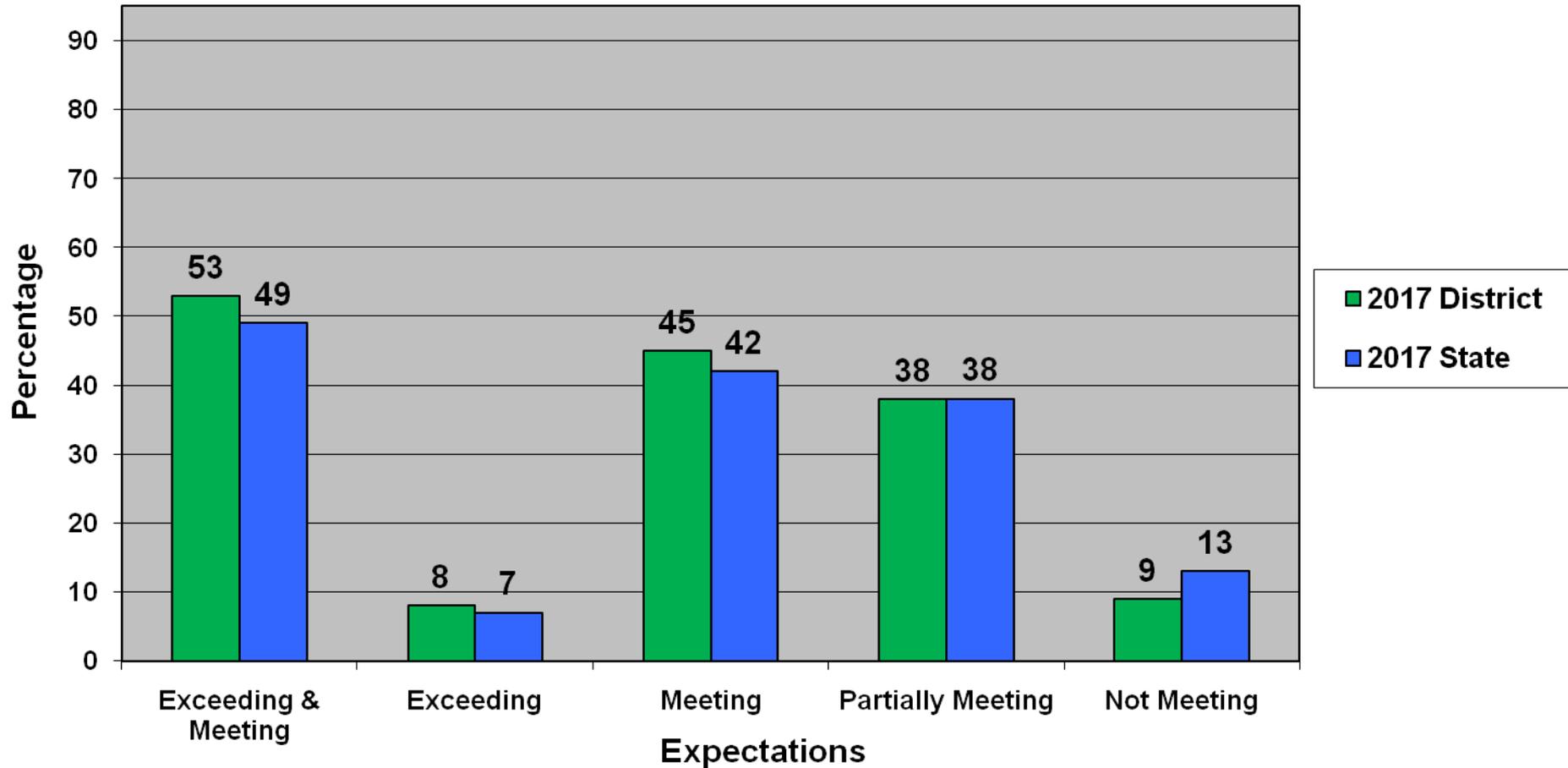
- **Not Meeting Expectations**

A student who performed at this level did not meet grade-level expectations in this subject.

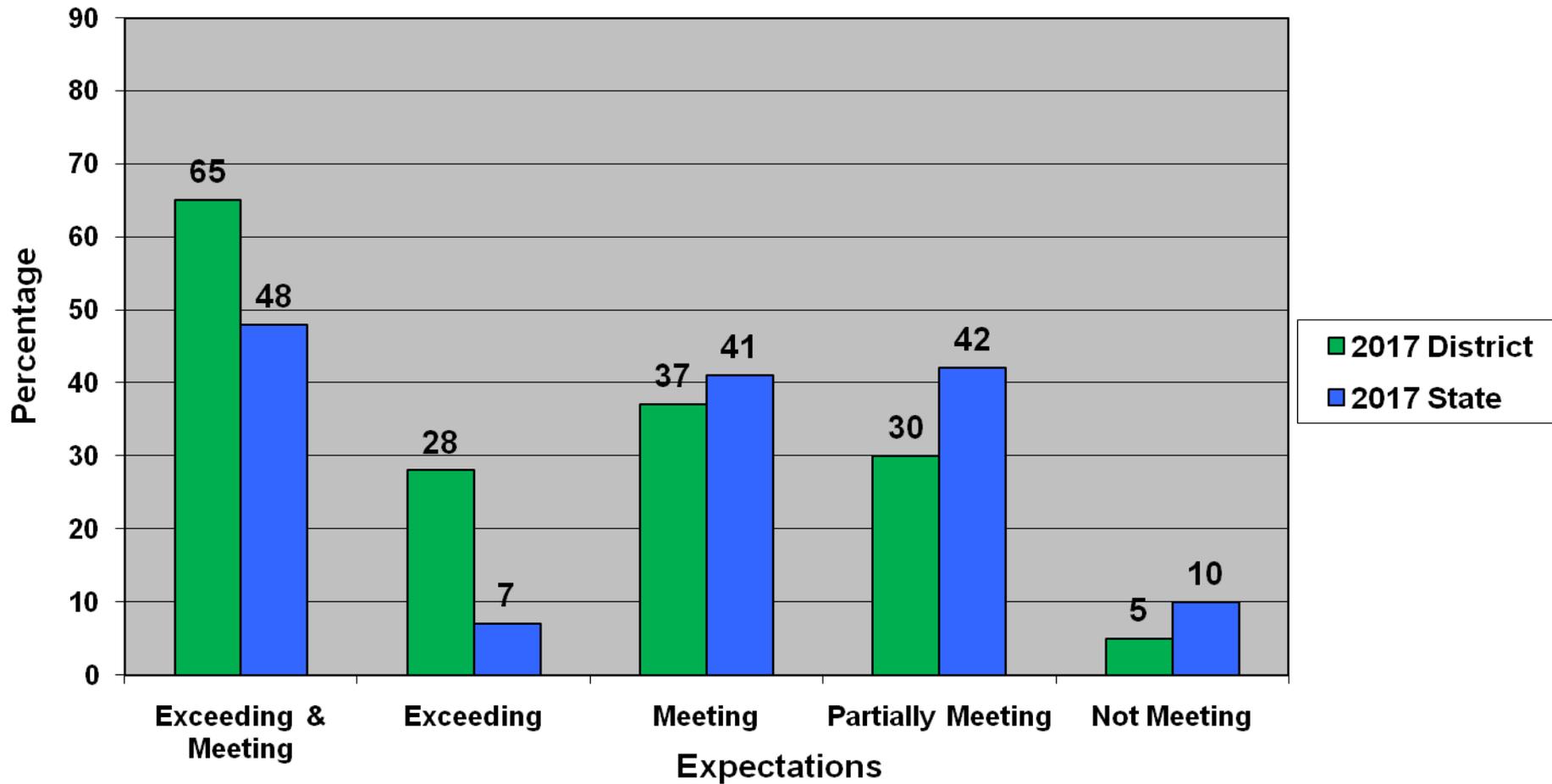
Grade Three ELA Next Generation MCAS



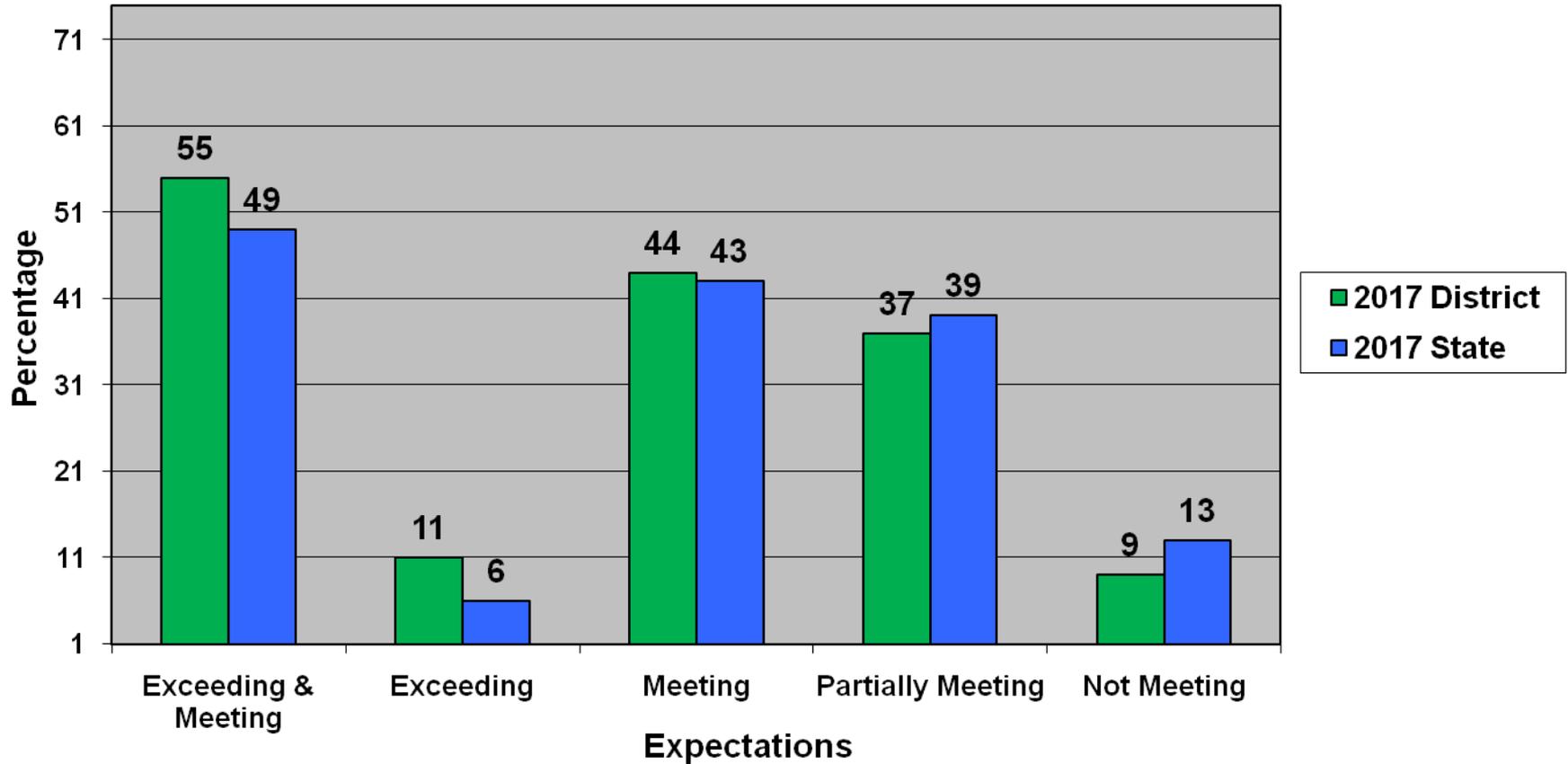
Grade Three Math Next Generation MCAS



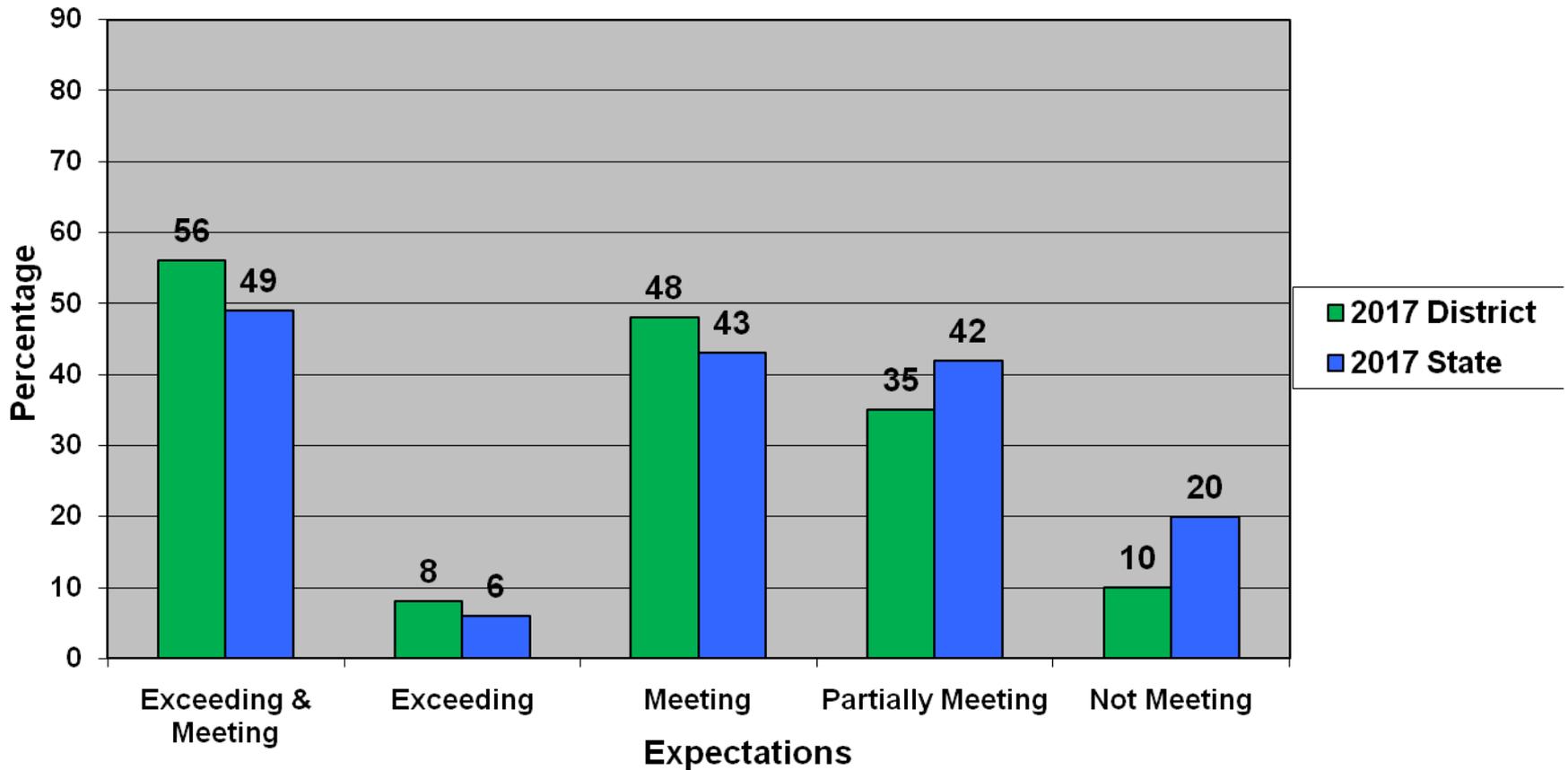
Grade Four ELA Next Generation MCAS



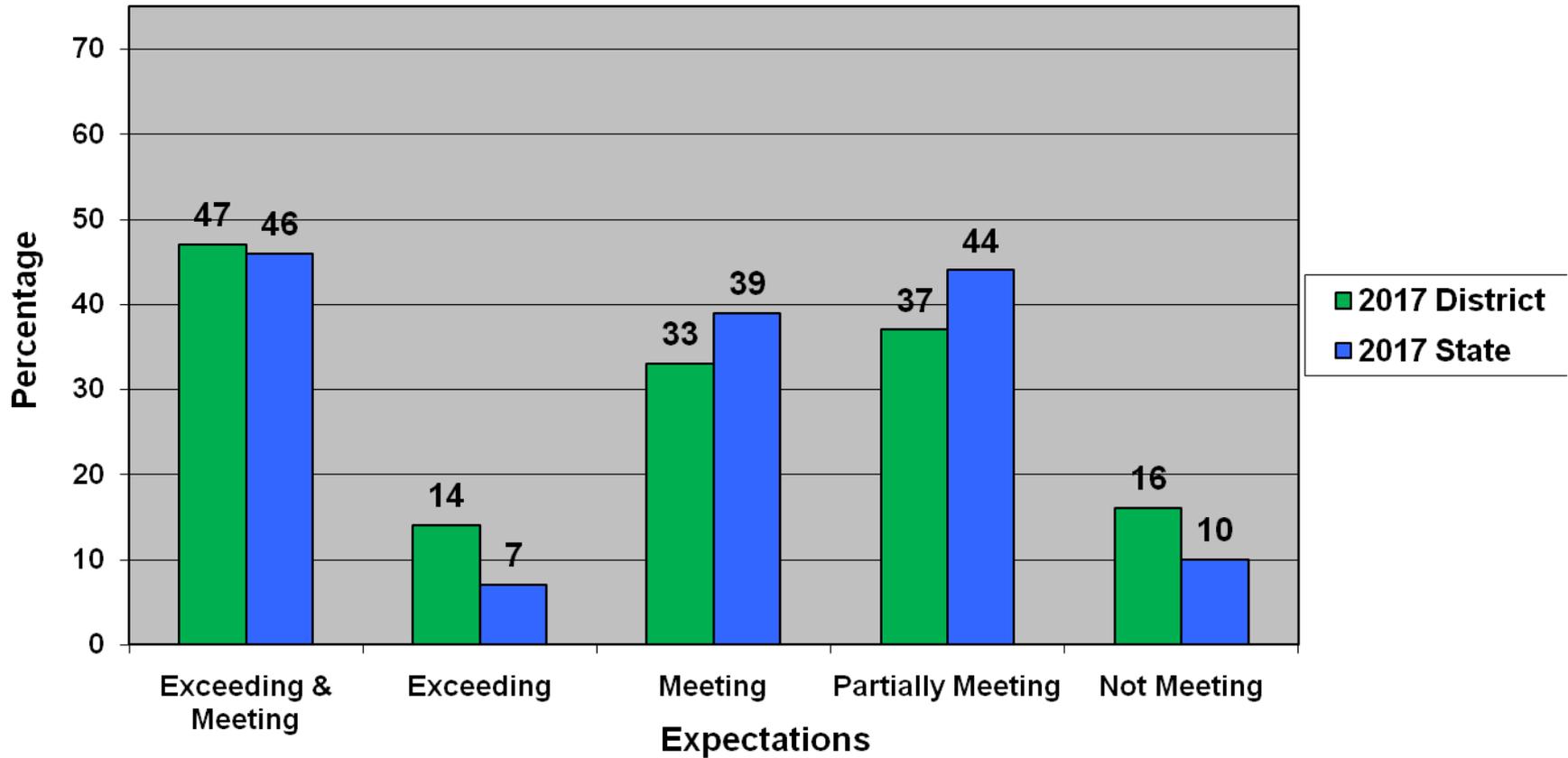
Grade Four Math Next Generation MCAS



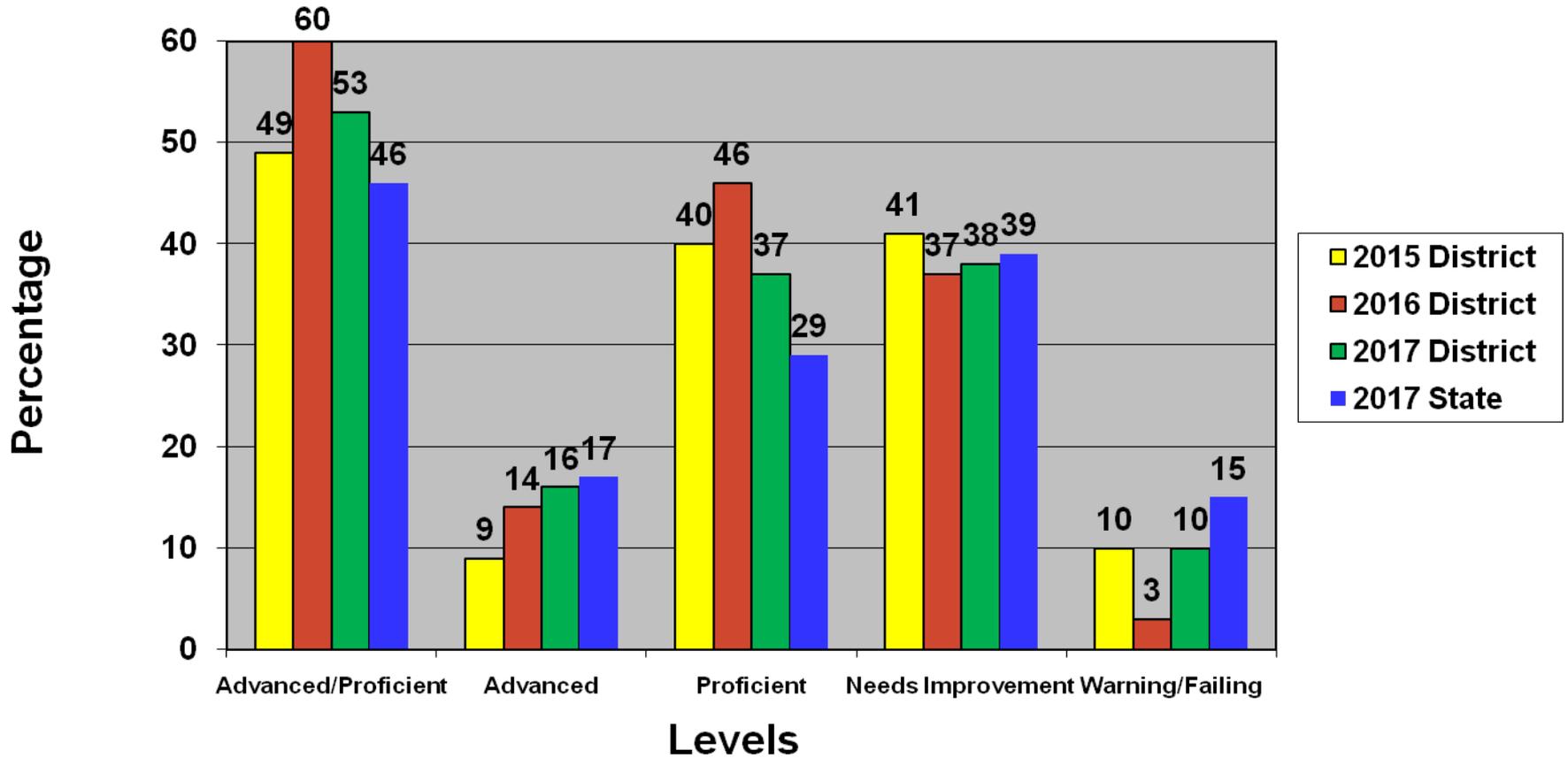
Grade Five ELA Next Generation MCAS



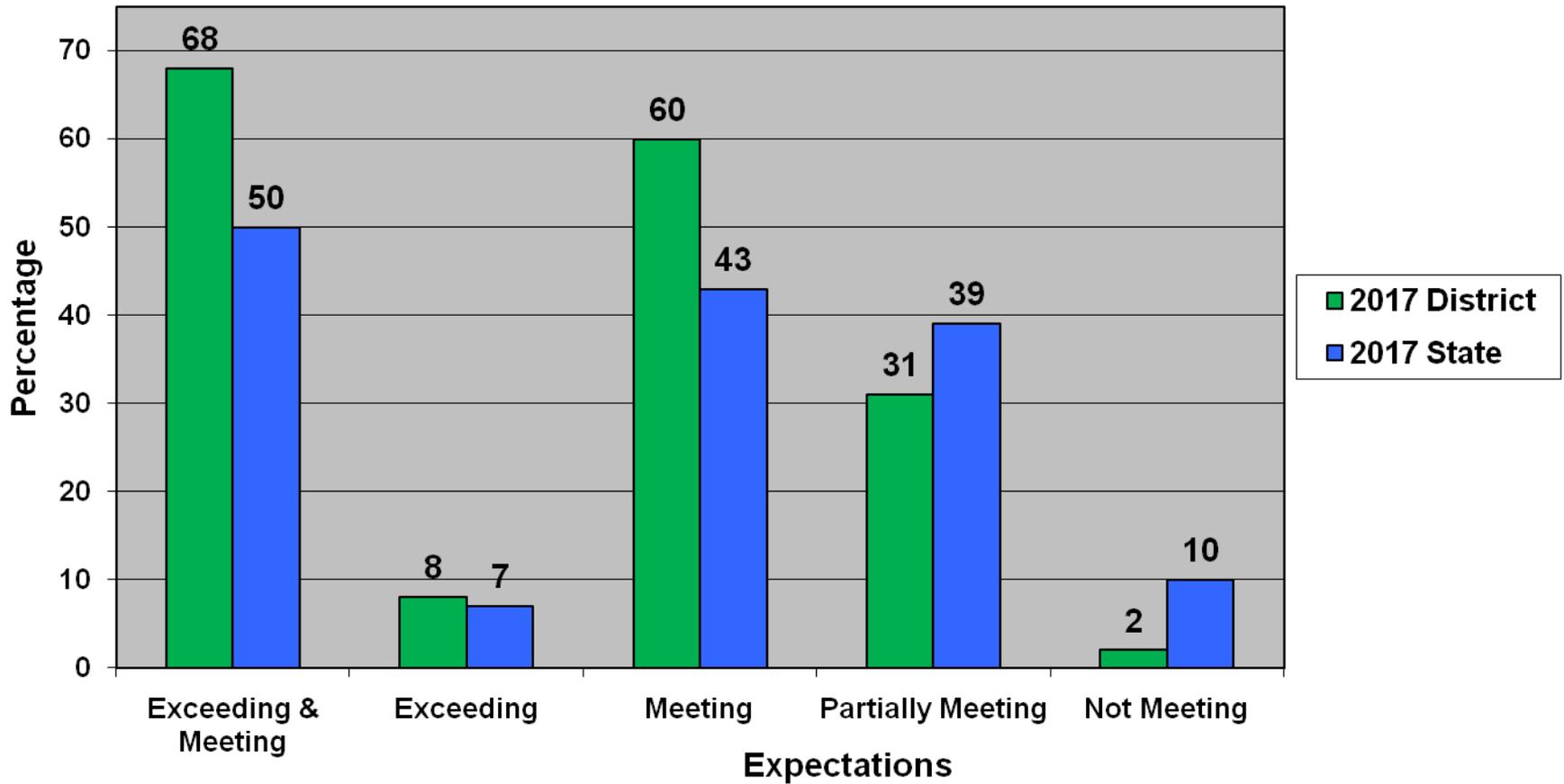
Grade Five Math Next Generation MCAS



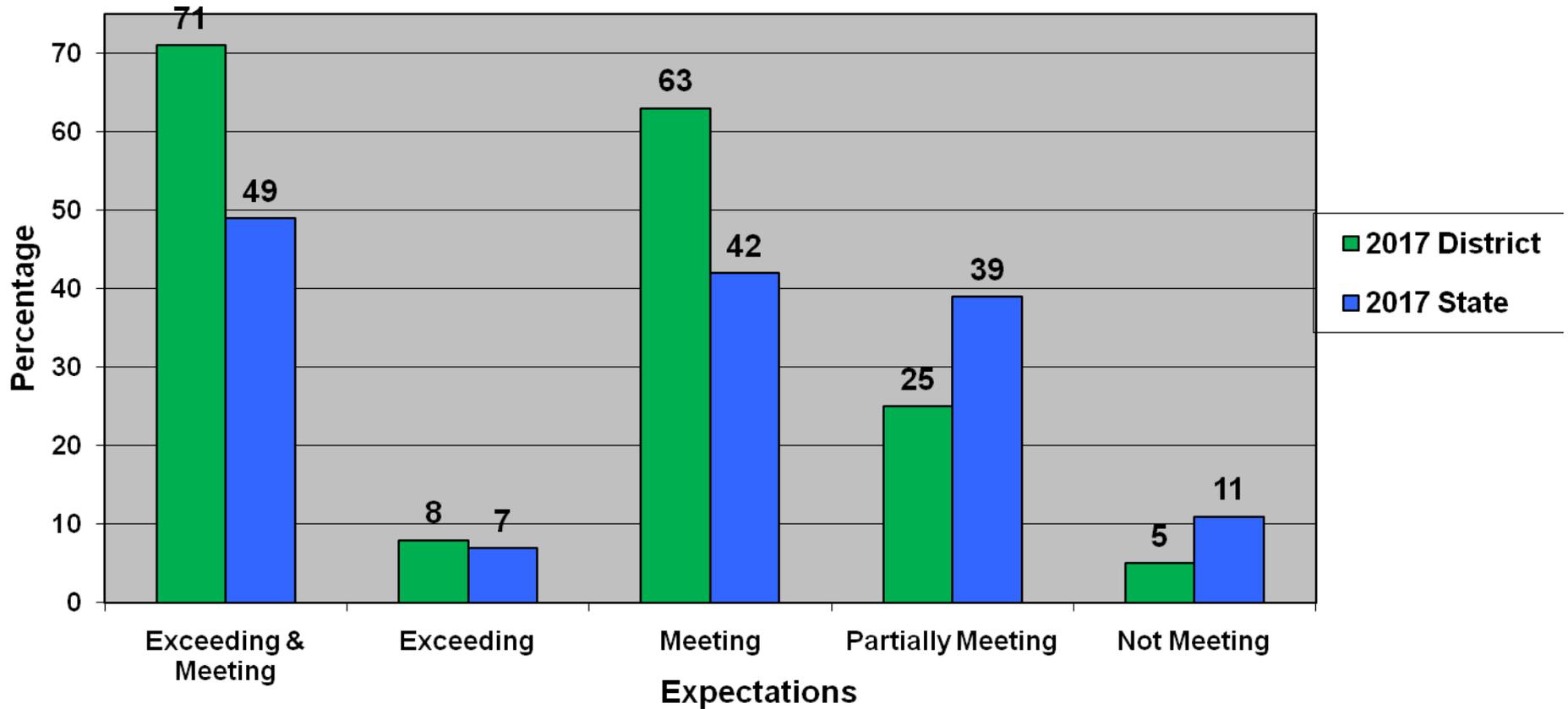
Grade Five Legacy MCAS Science & Technology/Engineering



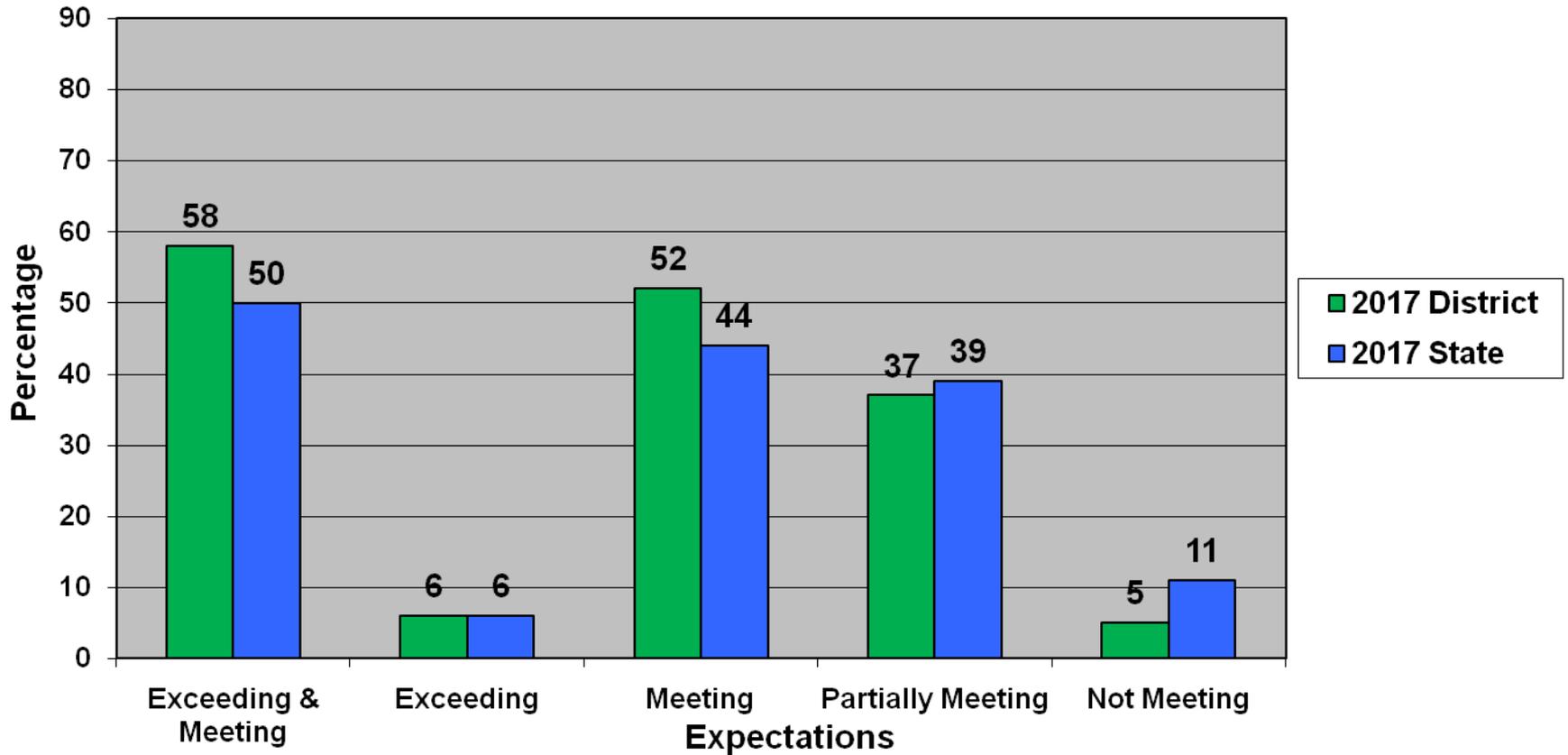
Grade Six ELA Next Generation MCAS



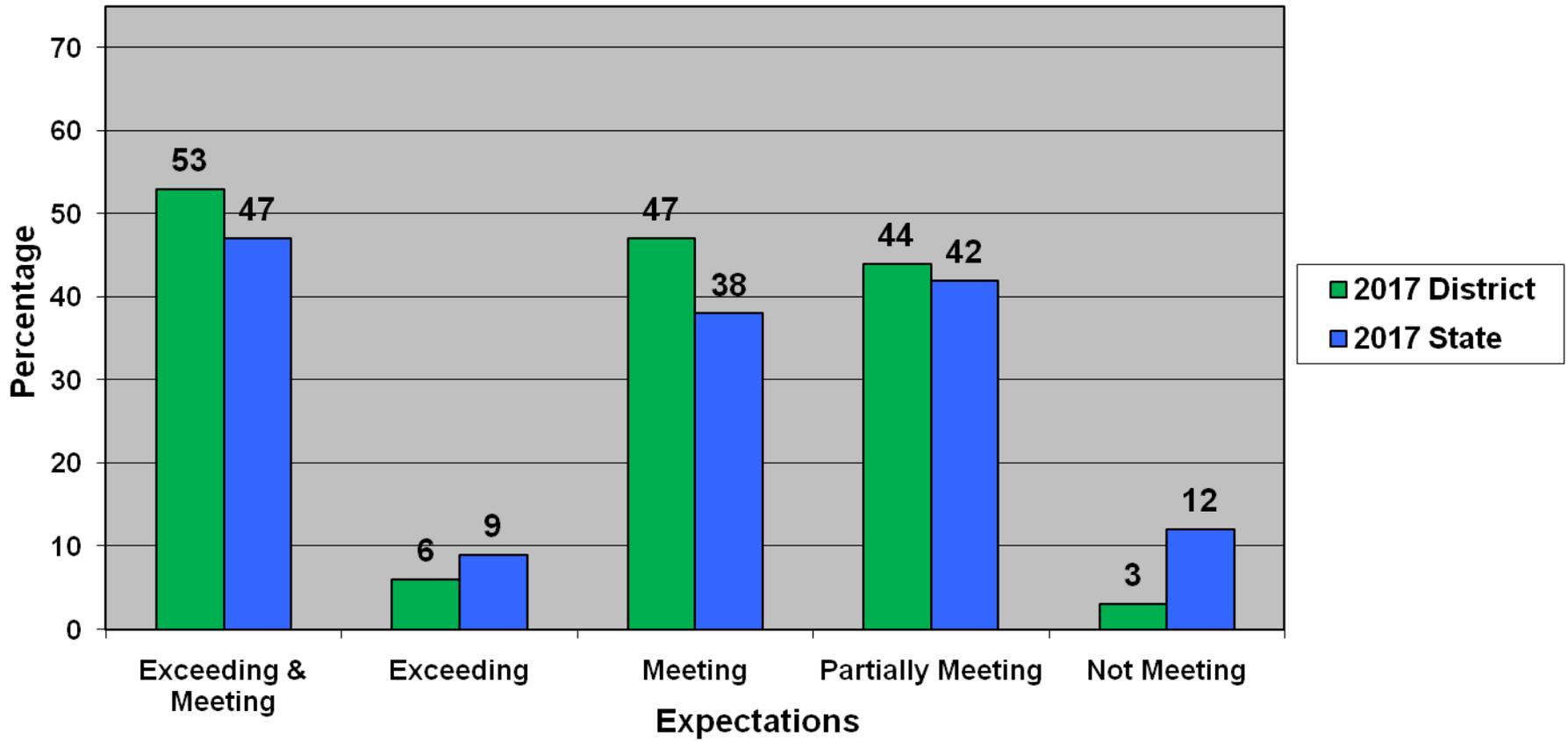
Grade Six Math Next Generation MCAS



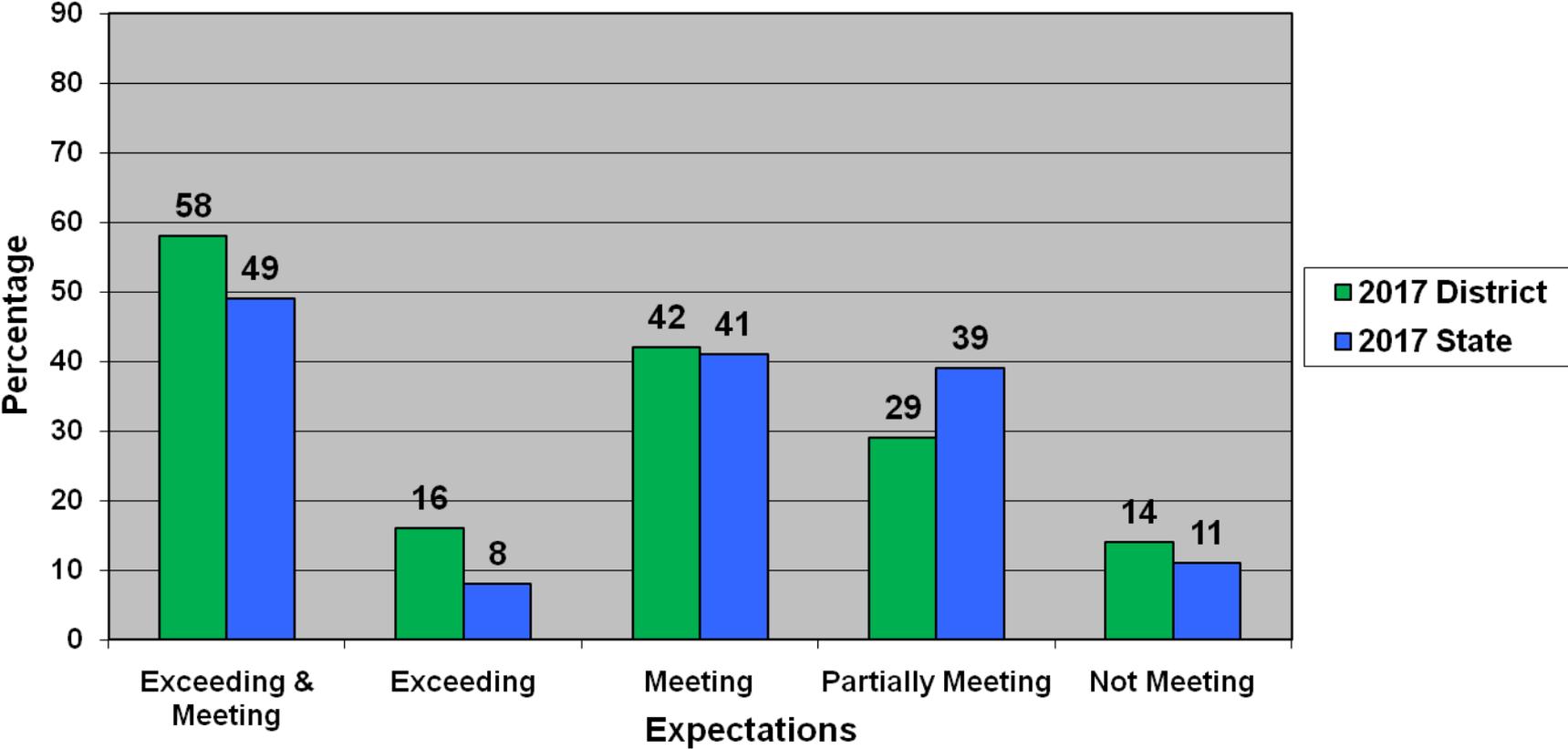
Grade Seven ELA Next Generation MCAS



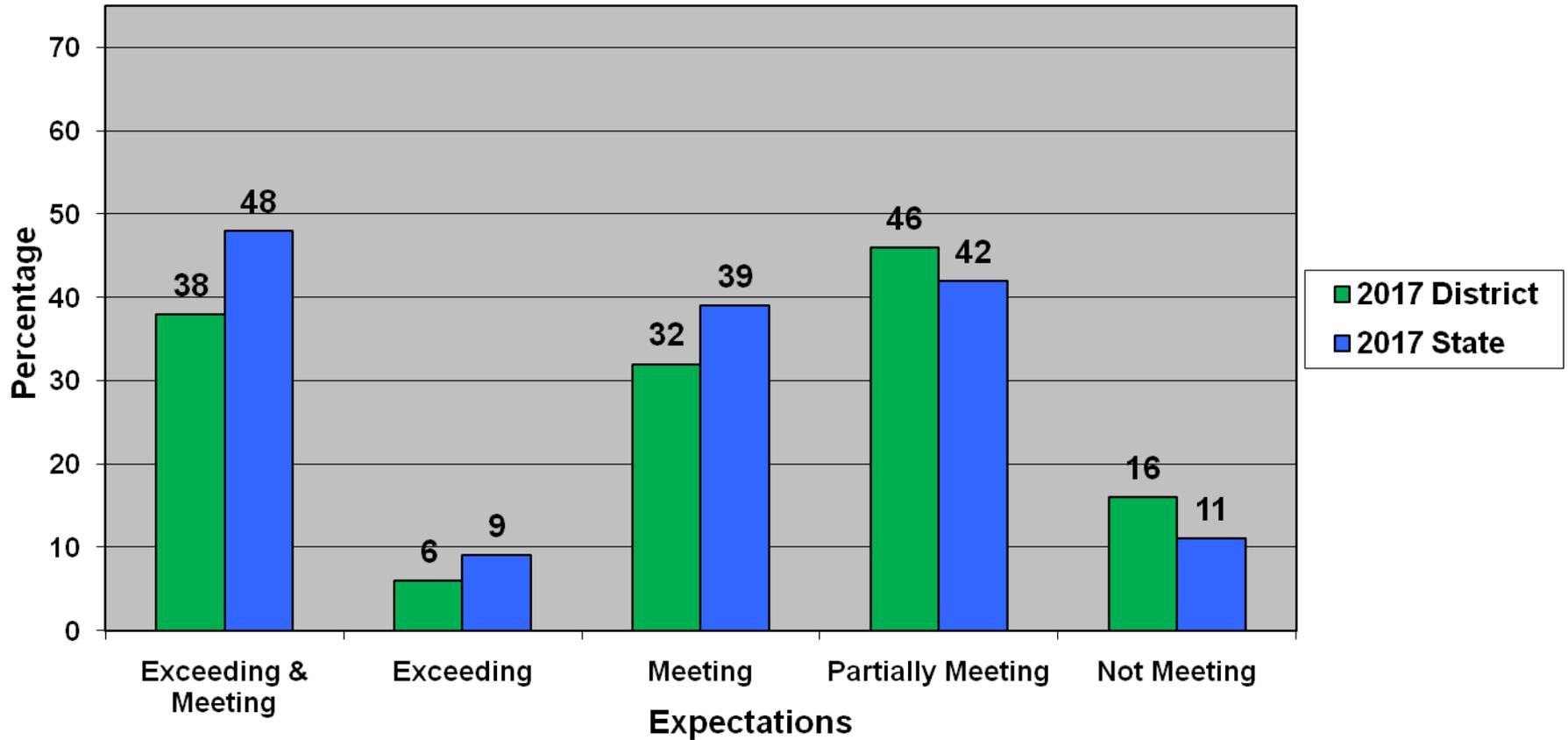
Grade Seven Math Next Generation MCAS



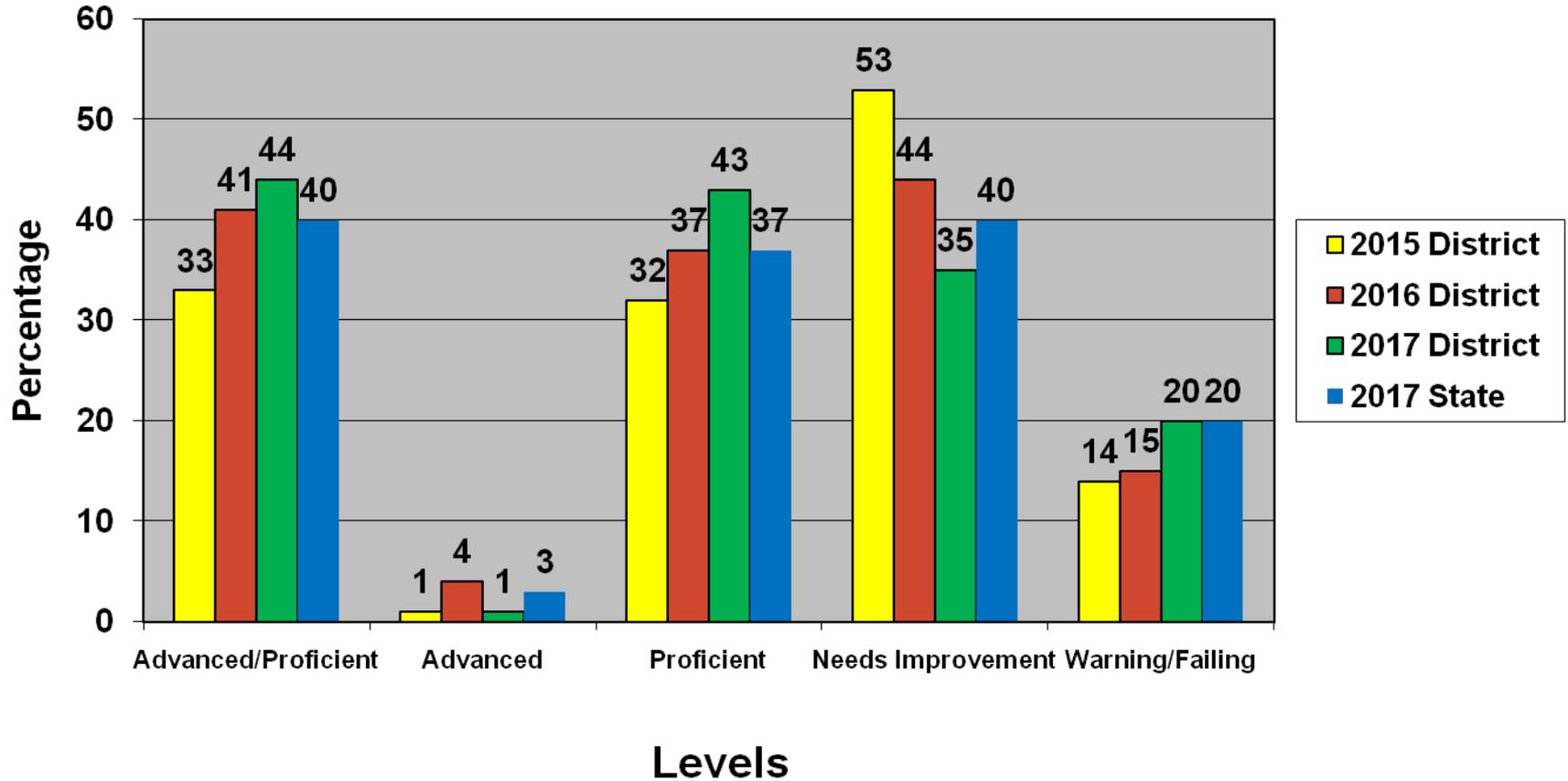
Grade Eight ELA Next Generation MCAS



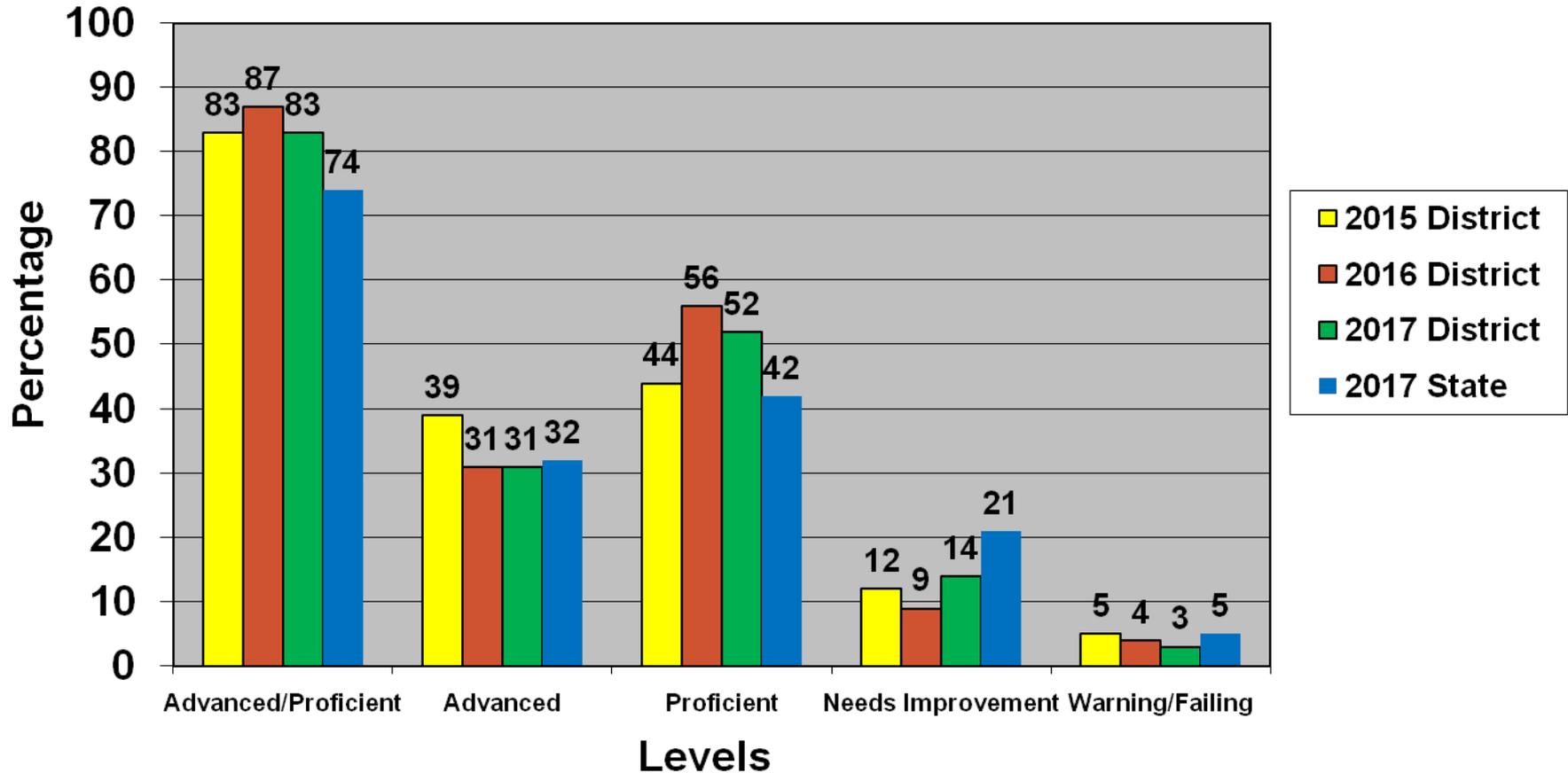
Grade Eight Math Next Generation MCAS



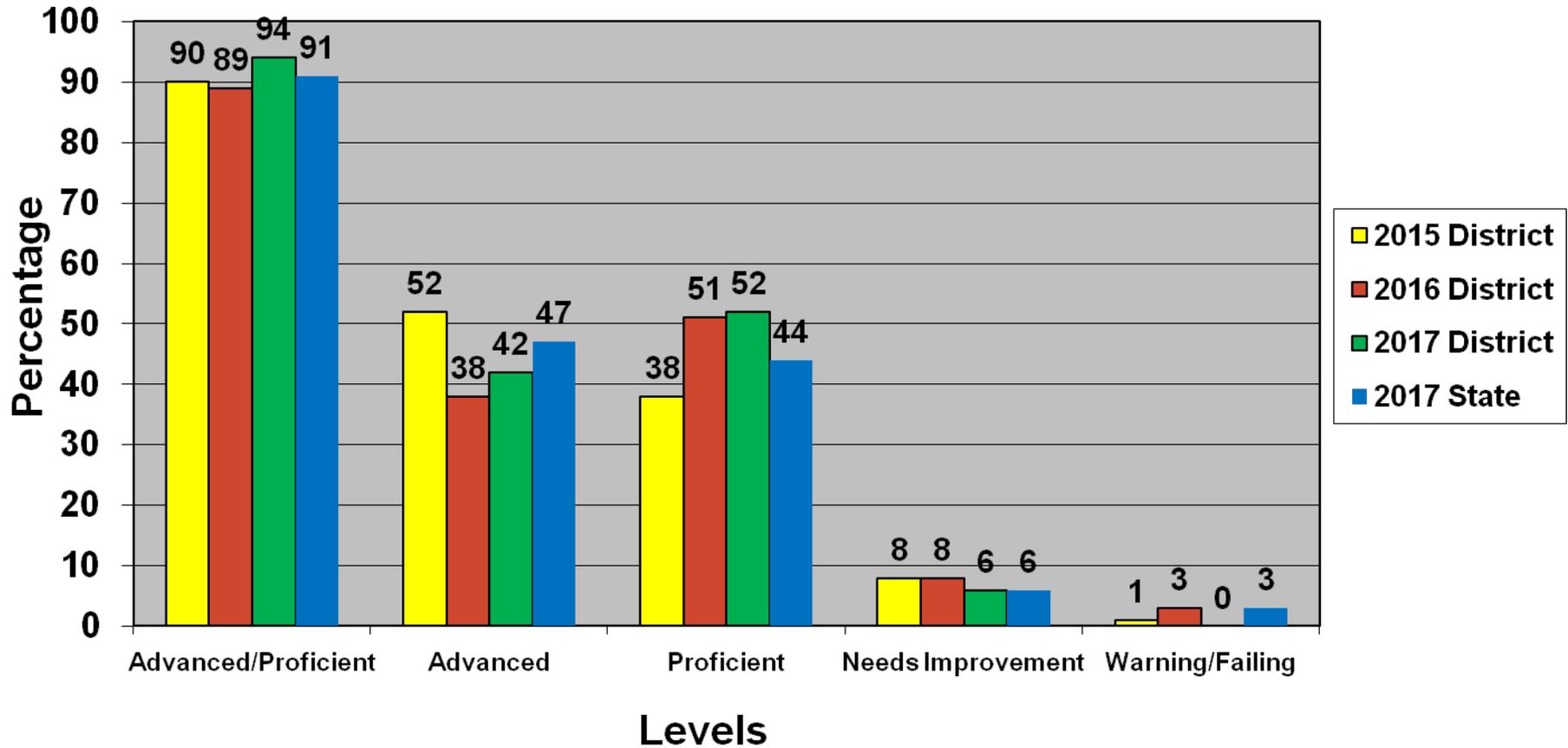
Grade Eight Legacy MCAS Science & Technology/Engineering



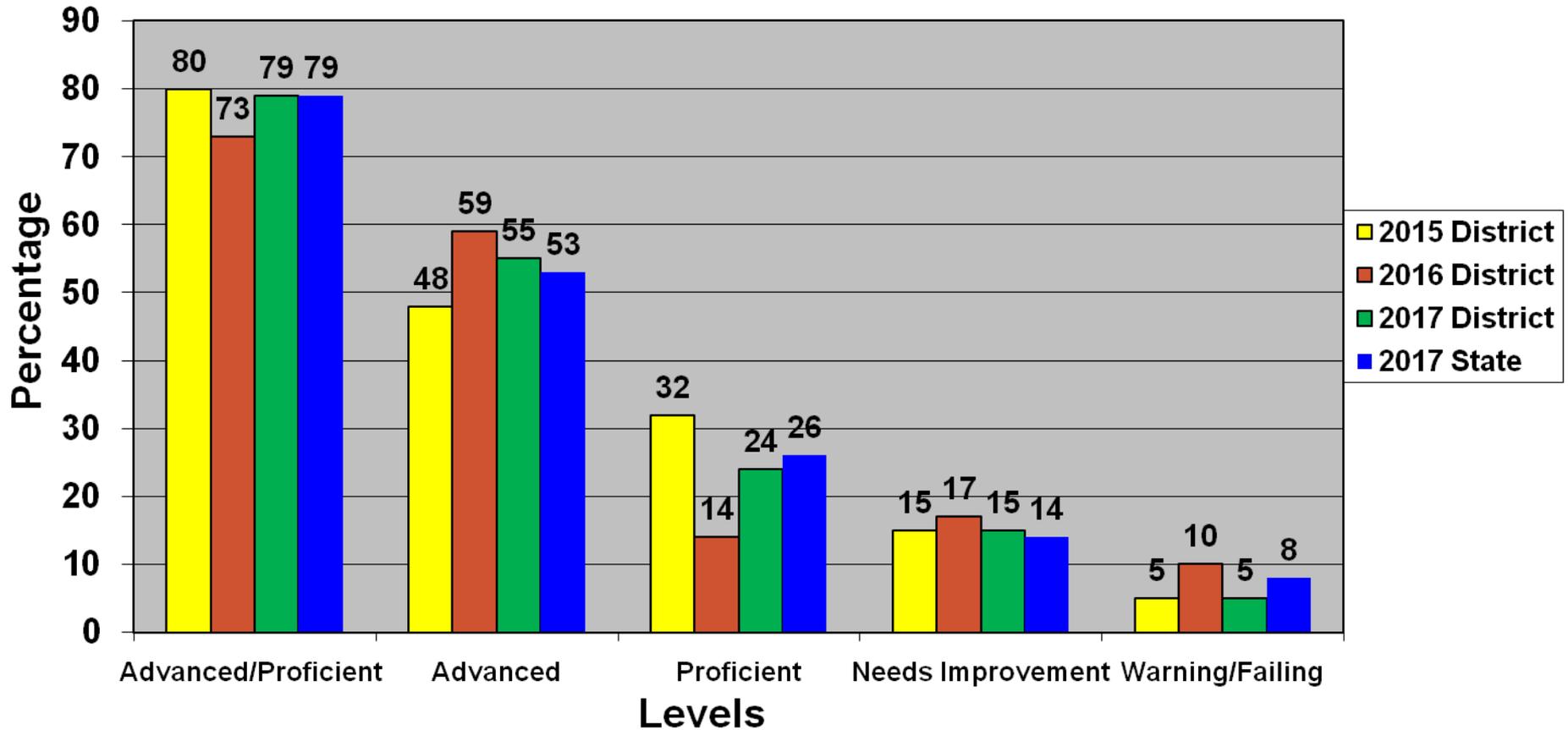
Grade Nine Legacy MCAS Introductory Physics



Grade Ten ELA Legacy MCAS



Grade Ten Math Legacy MCAS



Growth Model

Measurement of individual student progress on State Assessments by tracking the scores of academic peers from one year to the next.

Each student's rate of change in performance is compared to other students' performance with a similar test score history (academic peers).

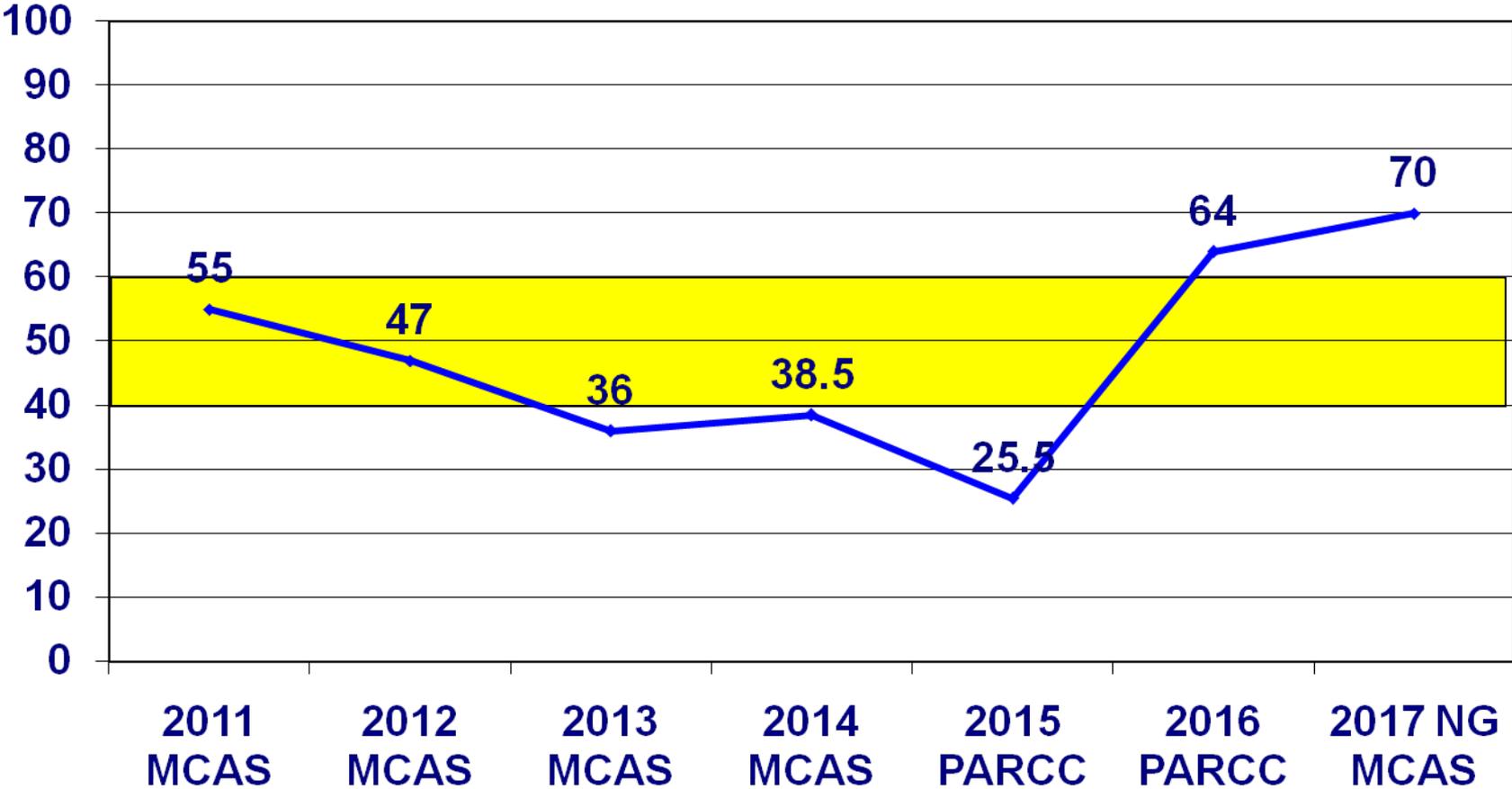
Typical student growth percentiles are between 40 and 60.

Median Student Growth Percentile

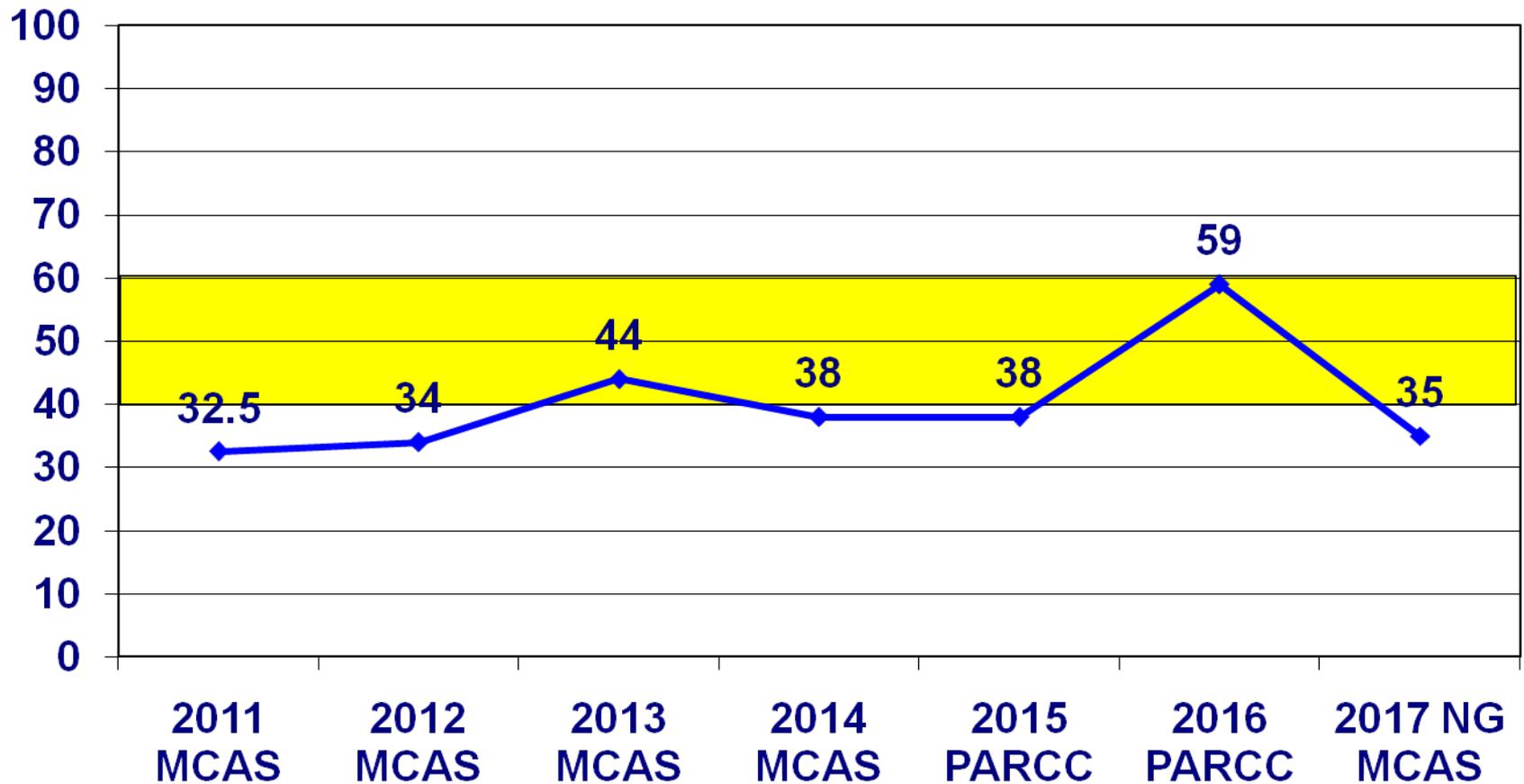
The median student growth percentile is the midpoint of student growth percentiles for a group of students.

Half of the students had student growth percentiles higher than the median and half had lower.

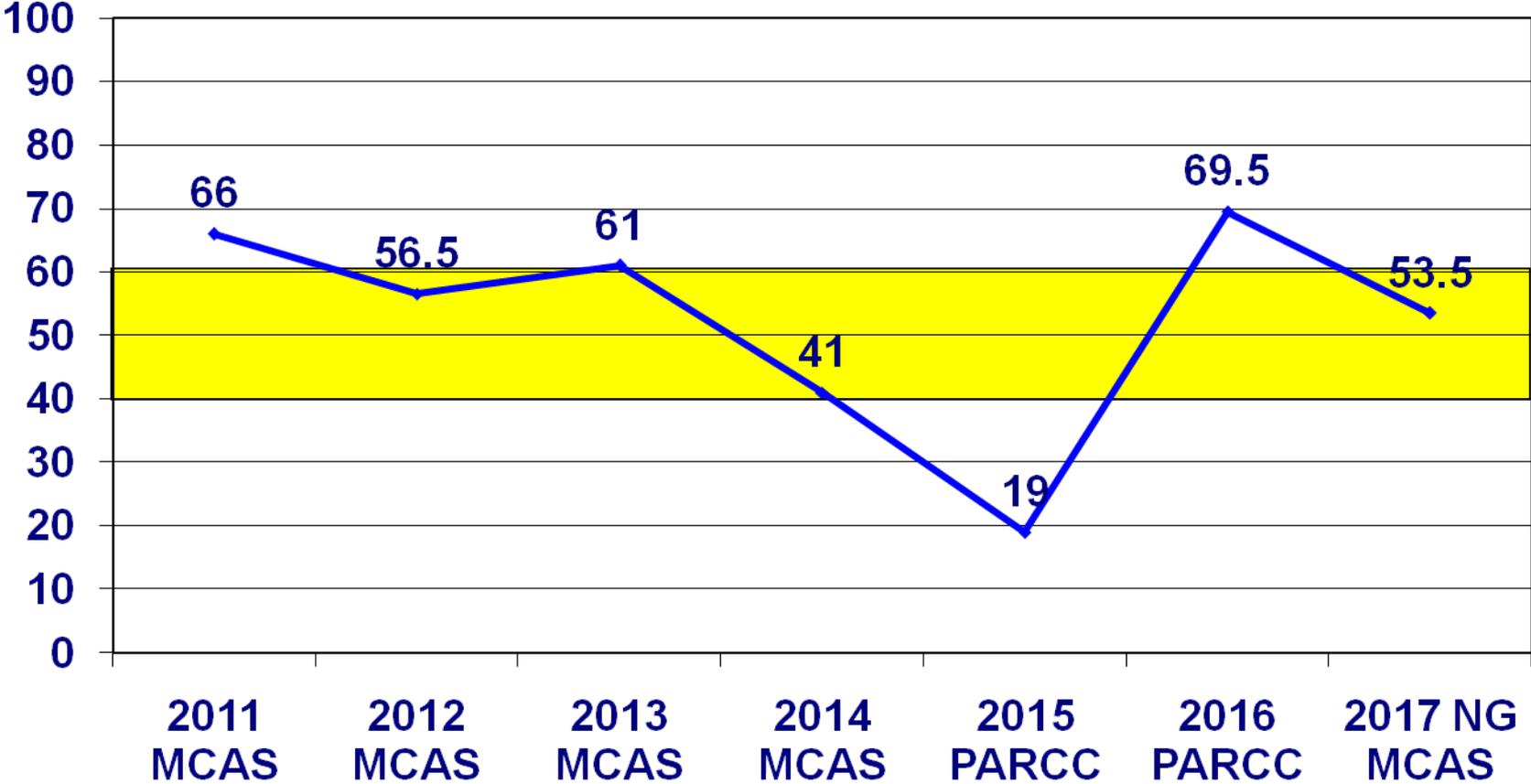
Median SGP - English Language Arts Grade Four



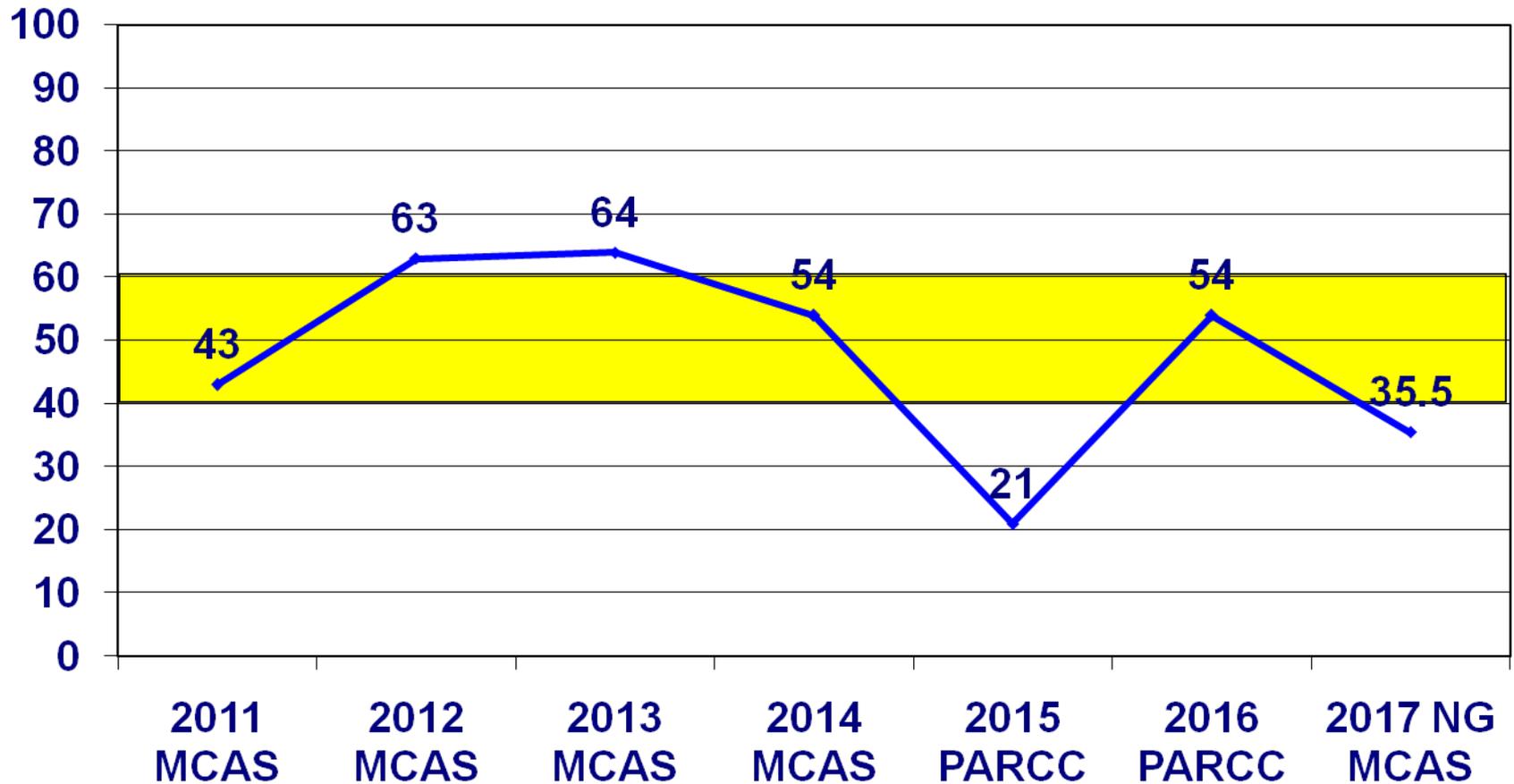
Median SGP – Mathematics Grade Four



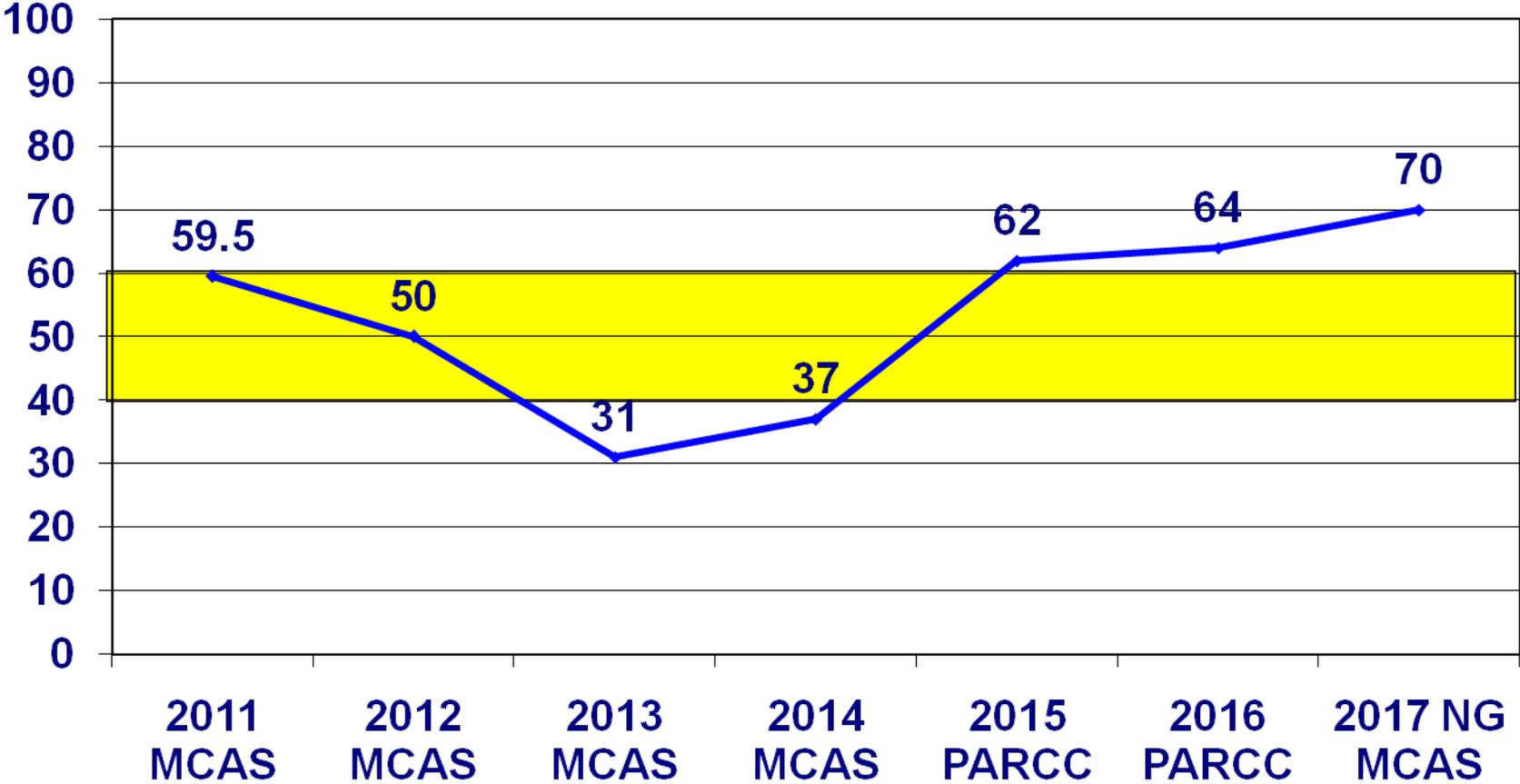
Median SGP - English Language Arts Grade Five



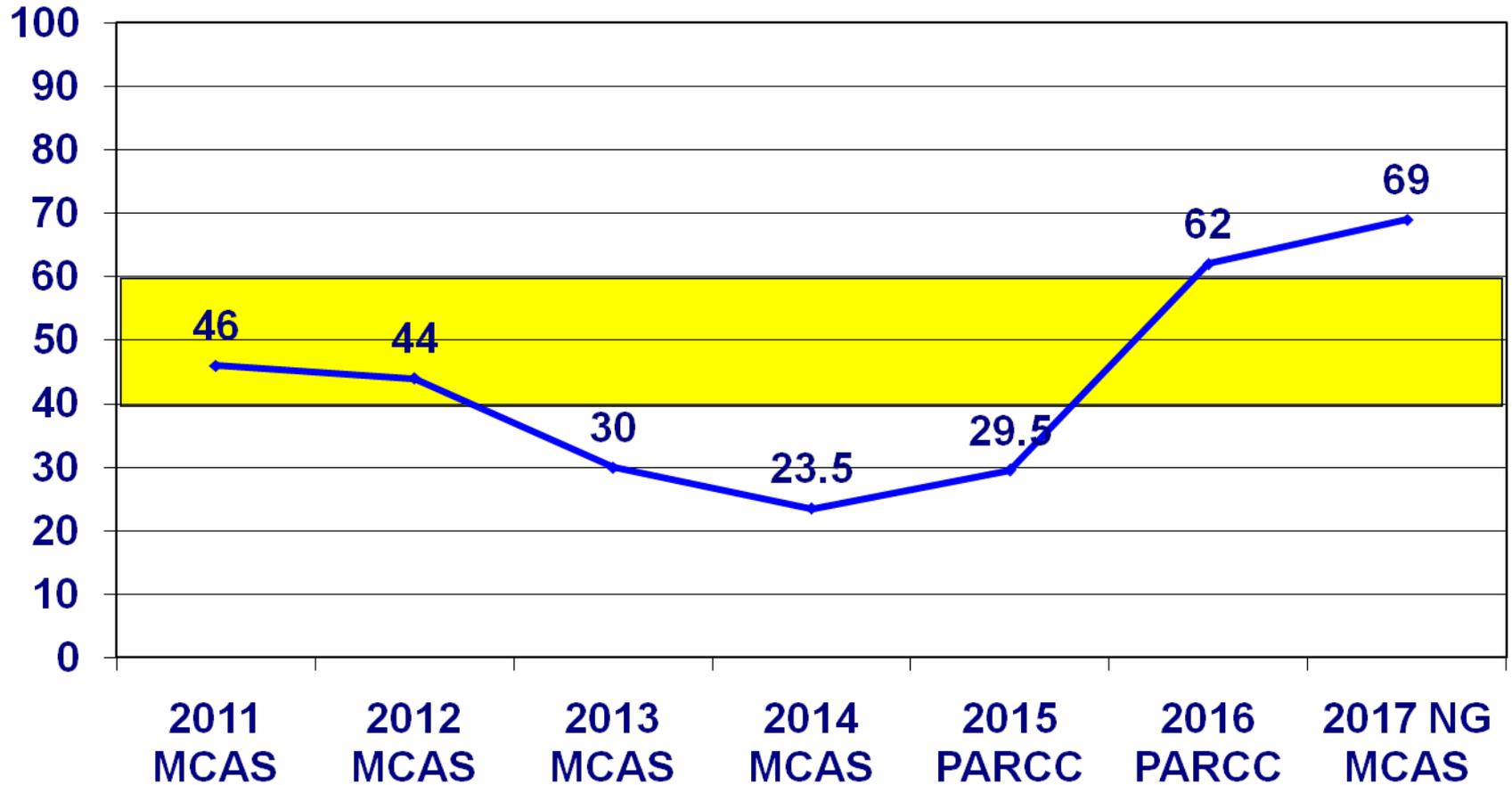
Median SGP – Mathematics Grade Five



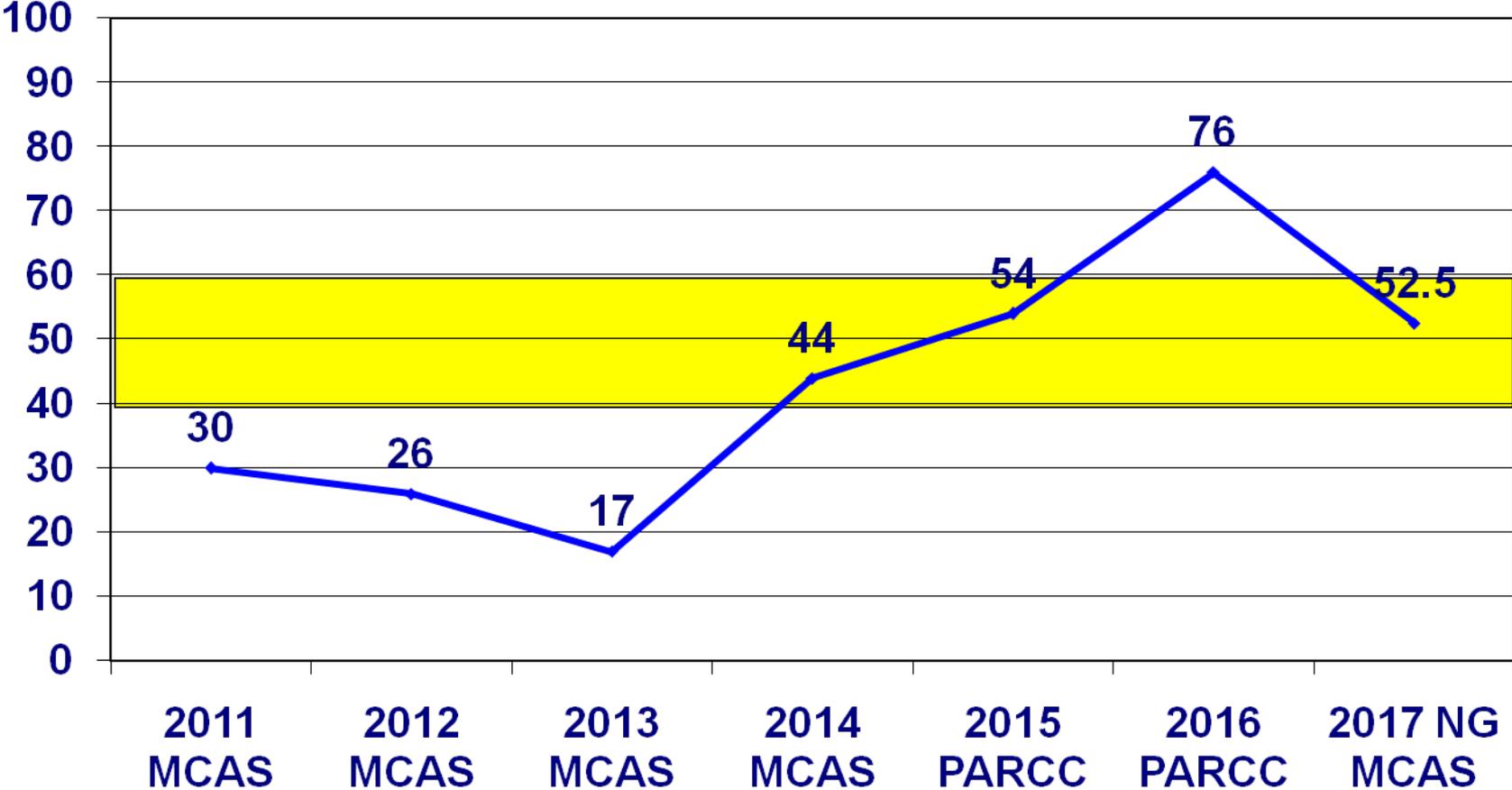
Median SGP - English Language Arts Grade Six



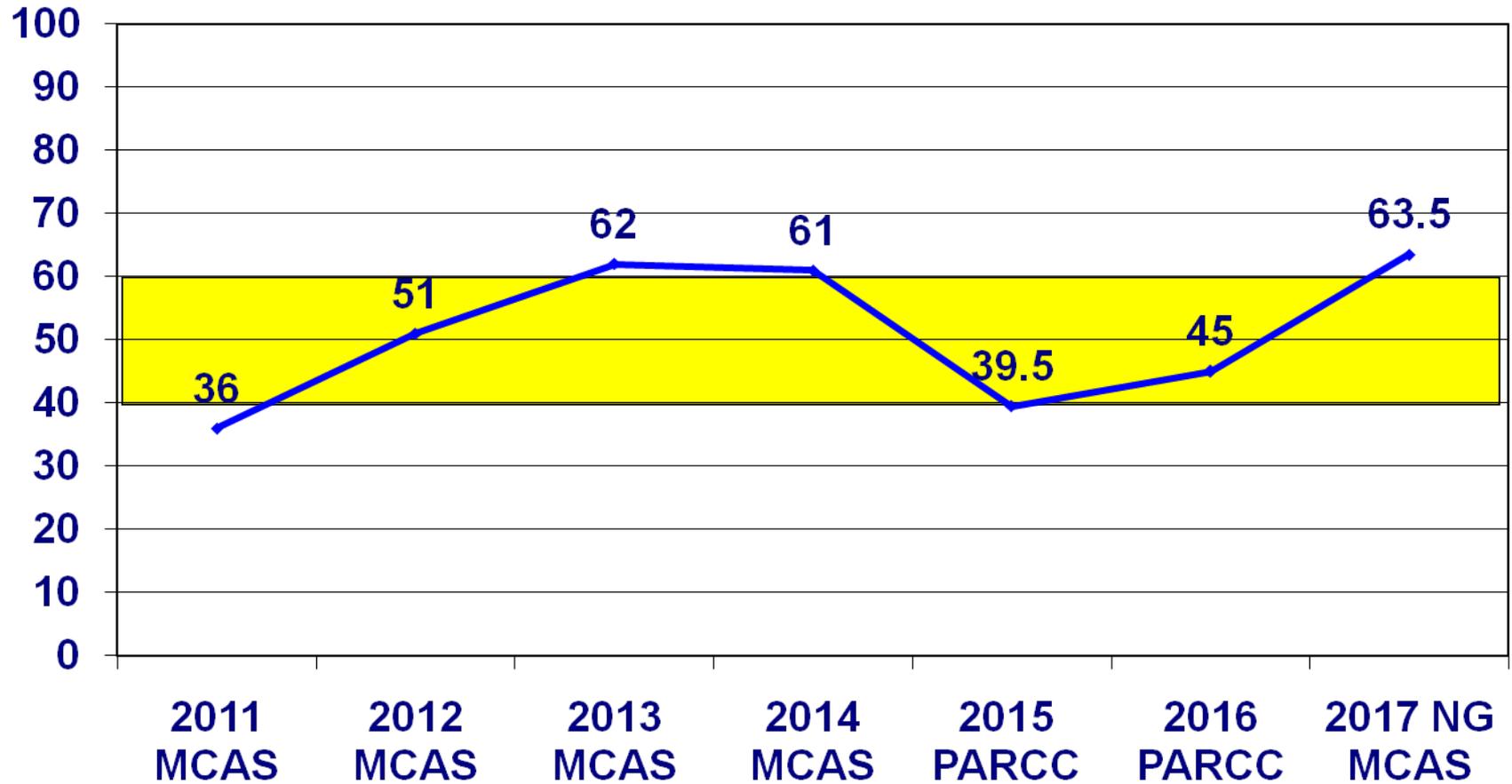
Median SGP – Mathematics Grade Six



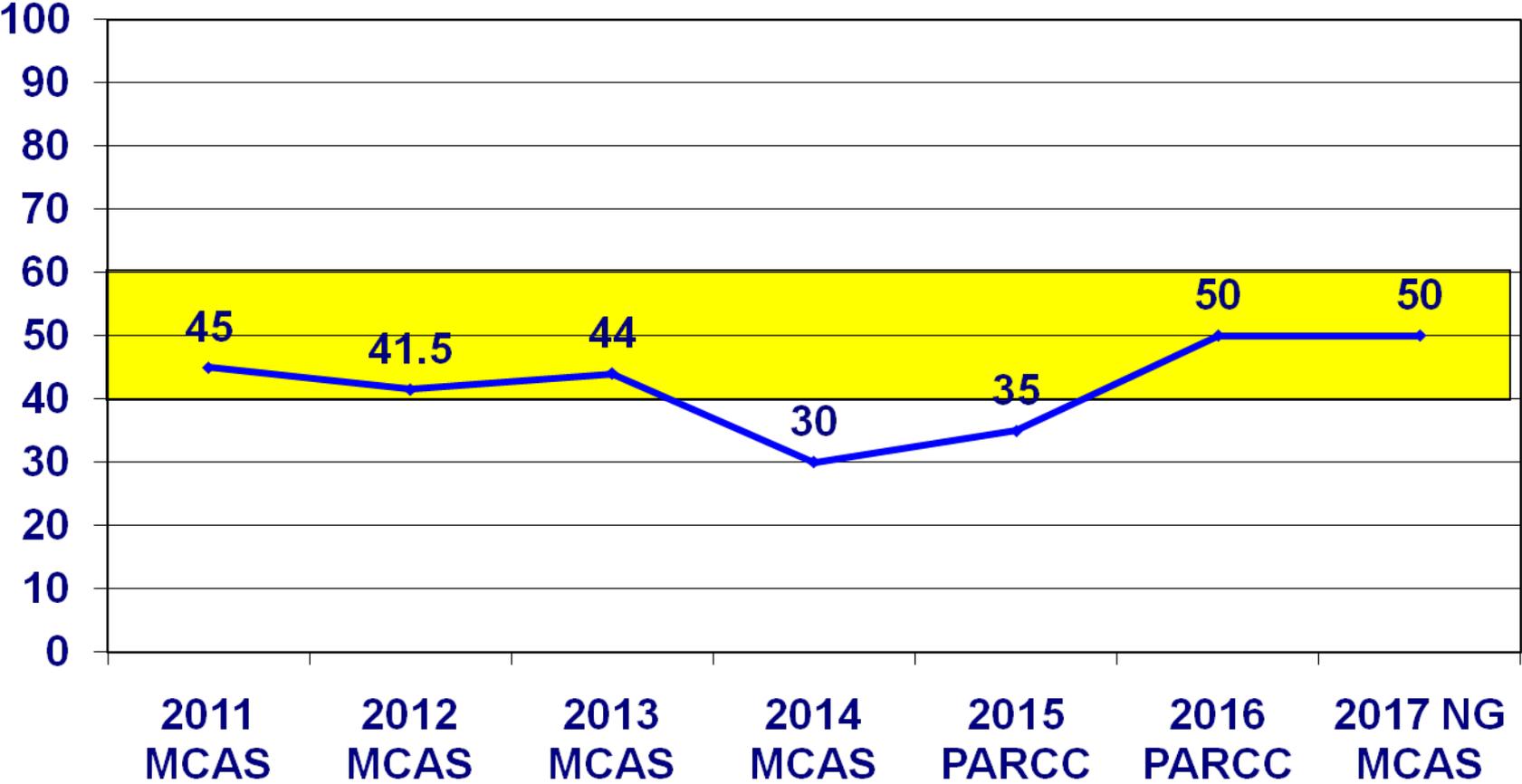
Median SGP - English Language Arts Grade Seven



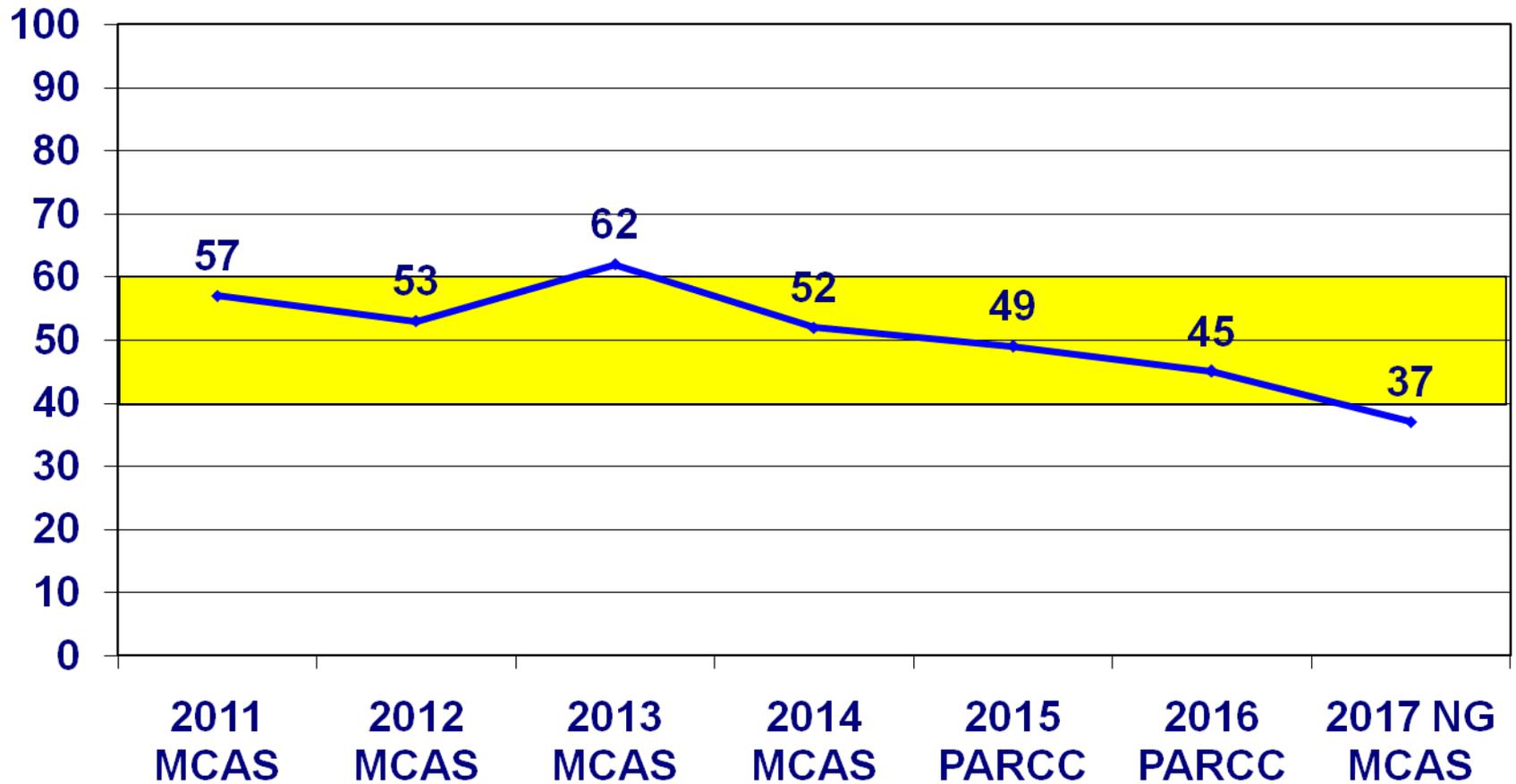
Median SGP – Mathematics Grade Seven



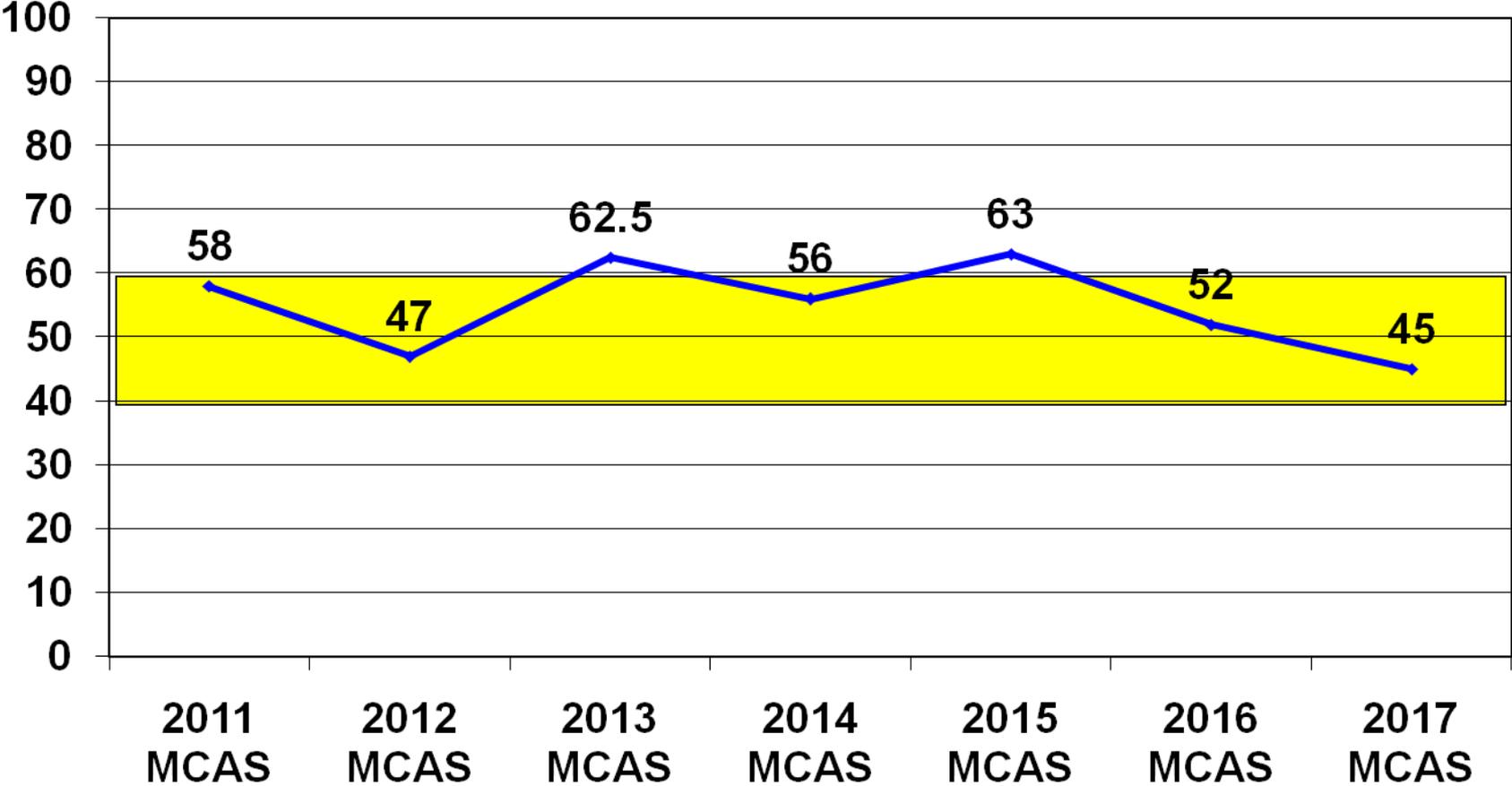
Median SGP - English Language Arts Grade Eight



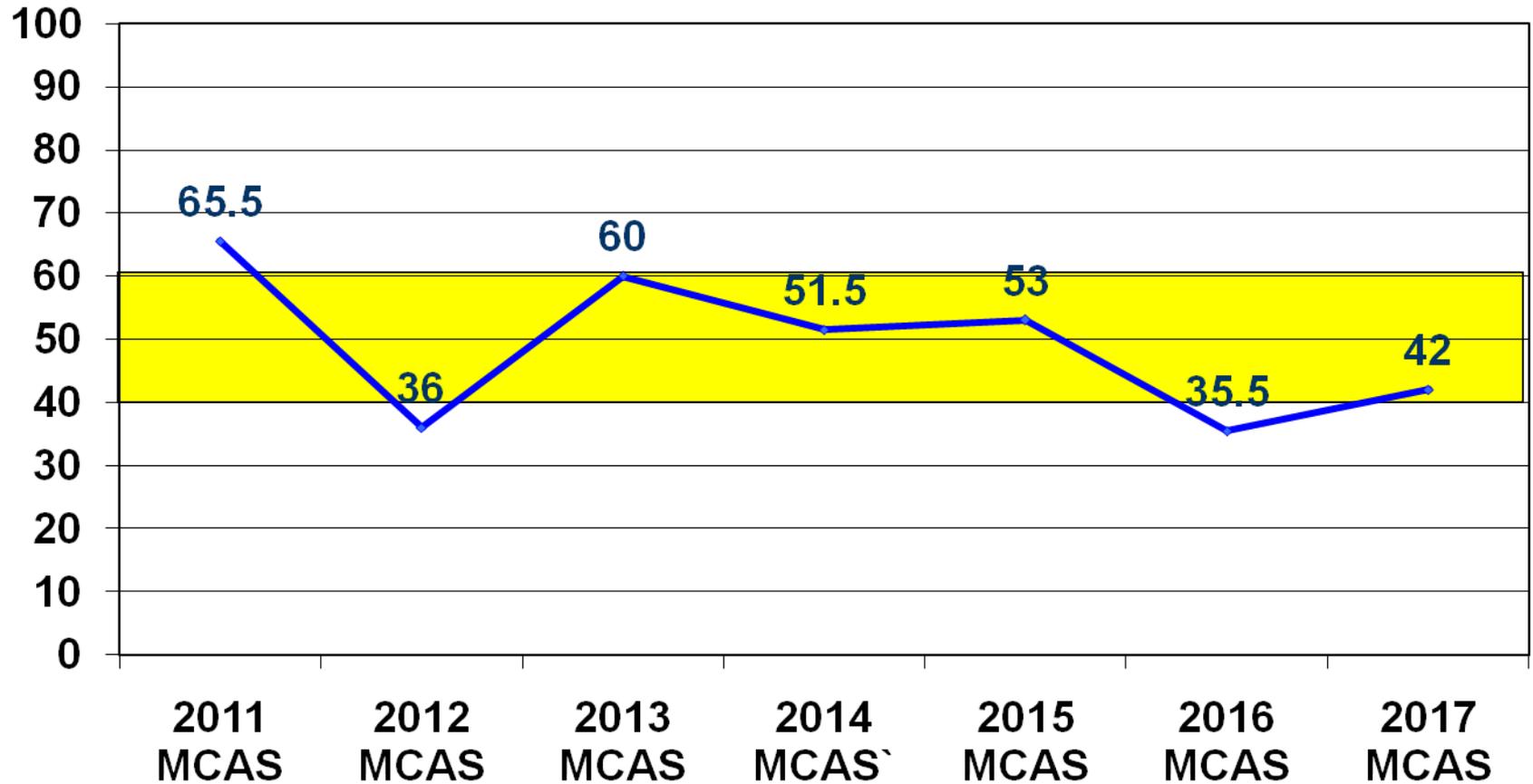
Median SGP – Mathematics Grade Eight



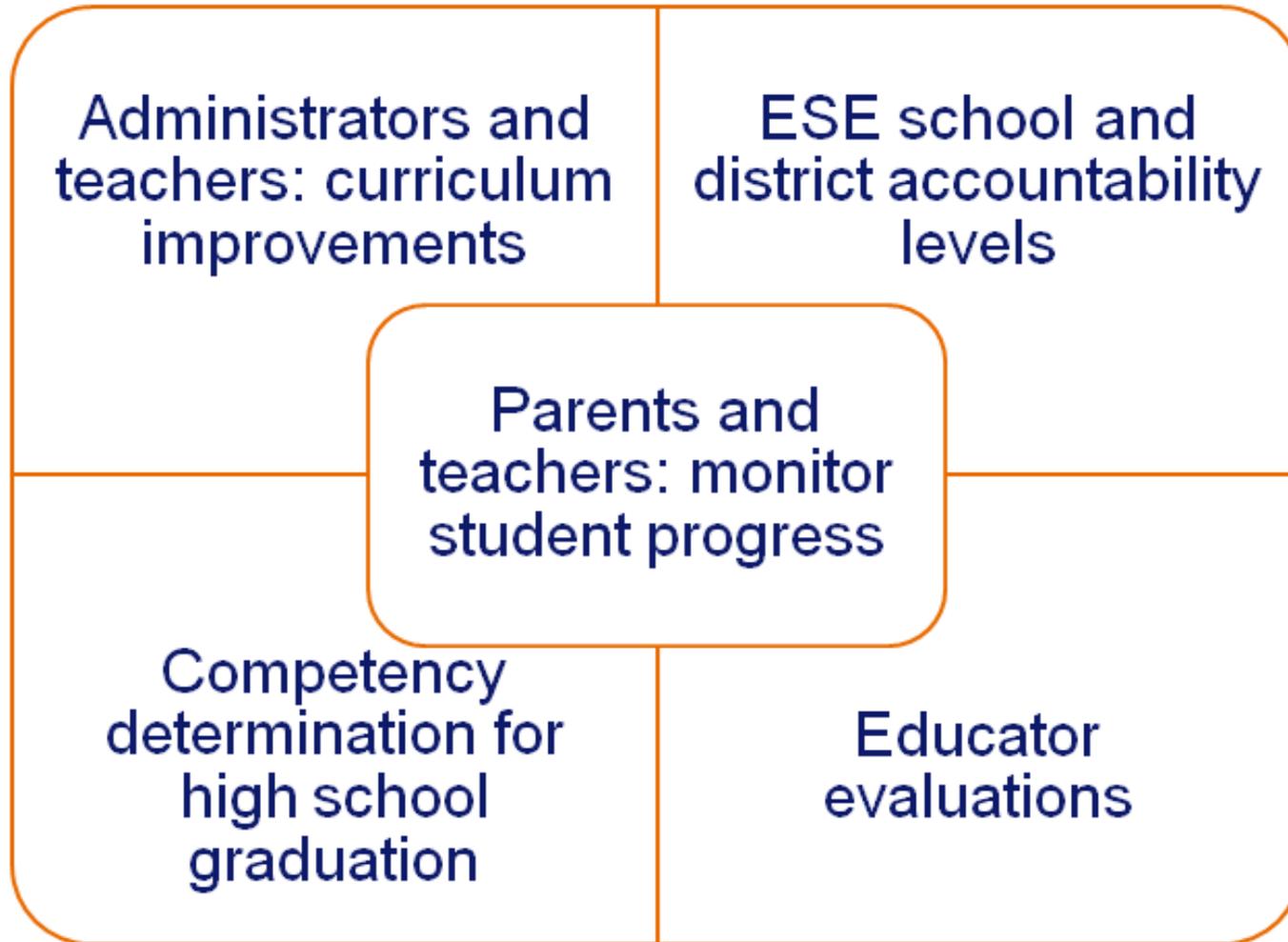
Median SGP - English Language Arts Grade Ten



Median SGP - Mathematics Grade Ten



Use of Student Assessment Results

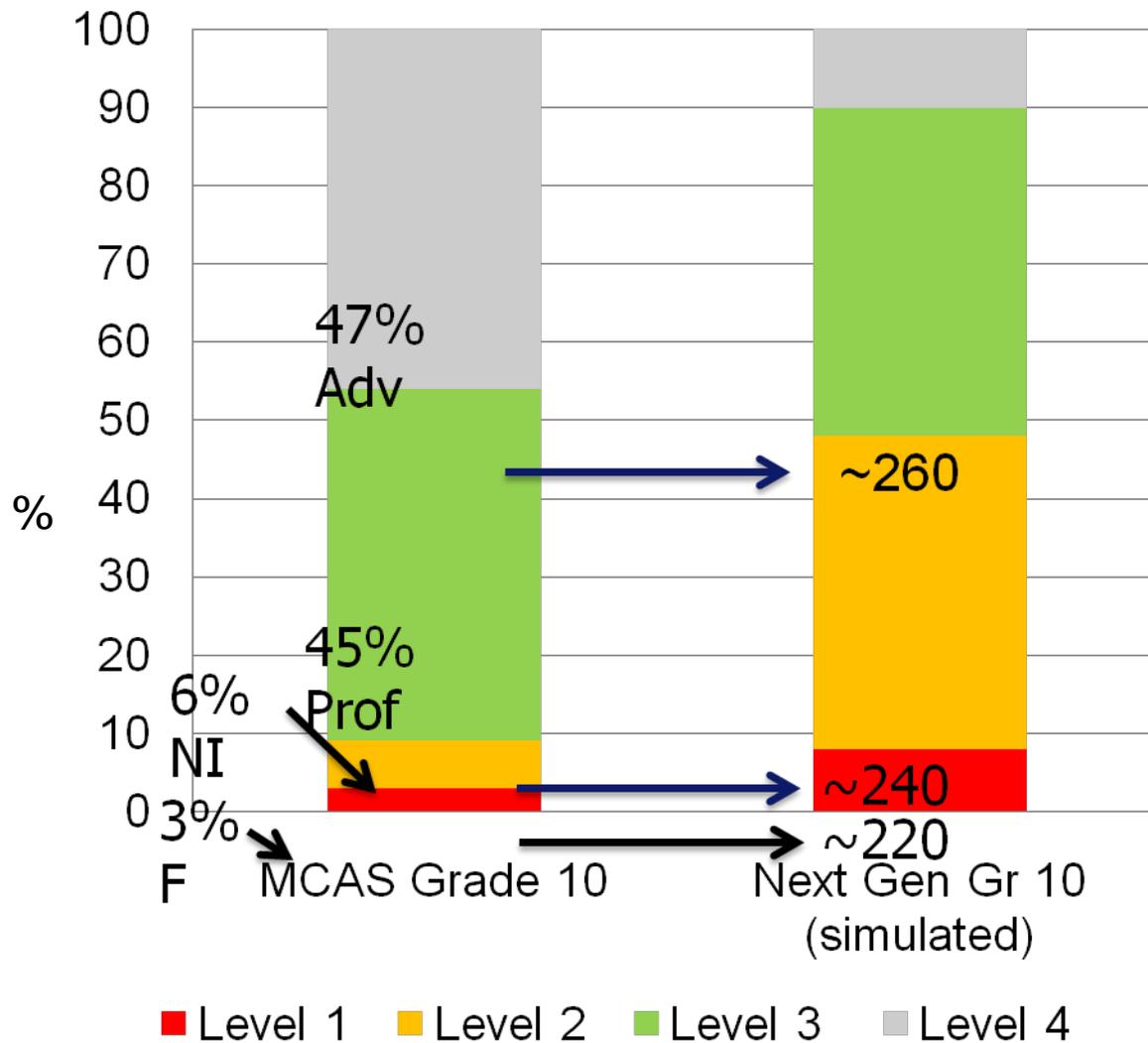


Proposed CD Requirements for ELA and Mathematics, by Class

Class	School Year						CD requirements
	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	
Class of 2020	Grade 10	Grade 11	Grade 12				Legacy (240 or 220+EPP, per BESE vote in October 2016)
Class of 2021	Grade 9	Grade 10*	Grade 11	Grade 12			Interim (standard on new test that represents similar level of achievement as 240, or 220+EPP)
Class of 2022		Grade 9	Grade 10	Grade 11	Grade 12		Interim (standard on new test that represents similar level of achievement as 240, or 220+EPP)
Class of 2023			Grade 9	Grade 10	Grade 11	Grade 12	Future (to be determined after results of new tests are considered by the Board in fall 2019)

*First administration of next-generation grade 10 tests in ELA/Mathematics

Equipercentile Linking Model



**Continuous Academic
Achievement for
ALL
Students!**