

Math³

Math * Men * Mission

An Algebra Readiness Partnership



A Full-Day Summer Academy

June 22 – July 3, 2009

◎ Participants

- 33 ACPS rising 5th, 6th and 7th graders from 12 schools

◎ Eligibility Criteria

- African American males
- 425+ on math SOL assessment
- Principal Endorsement
- Parental Commitment
- 100 BMOCV Partnership

Program Goals

- Increase the number of African-American males enrolled in upper-level math classes.
- Provide a rigorous pre-algebra curriculum to address the learning styles of young African-American males.
- Build healthy relationships between the student, his family, and school.
- Establish a systemic support system.

Goal 1: Increase the number of AA males enrolled in and/or successful in upper-level math classes.

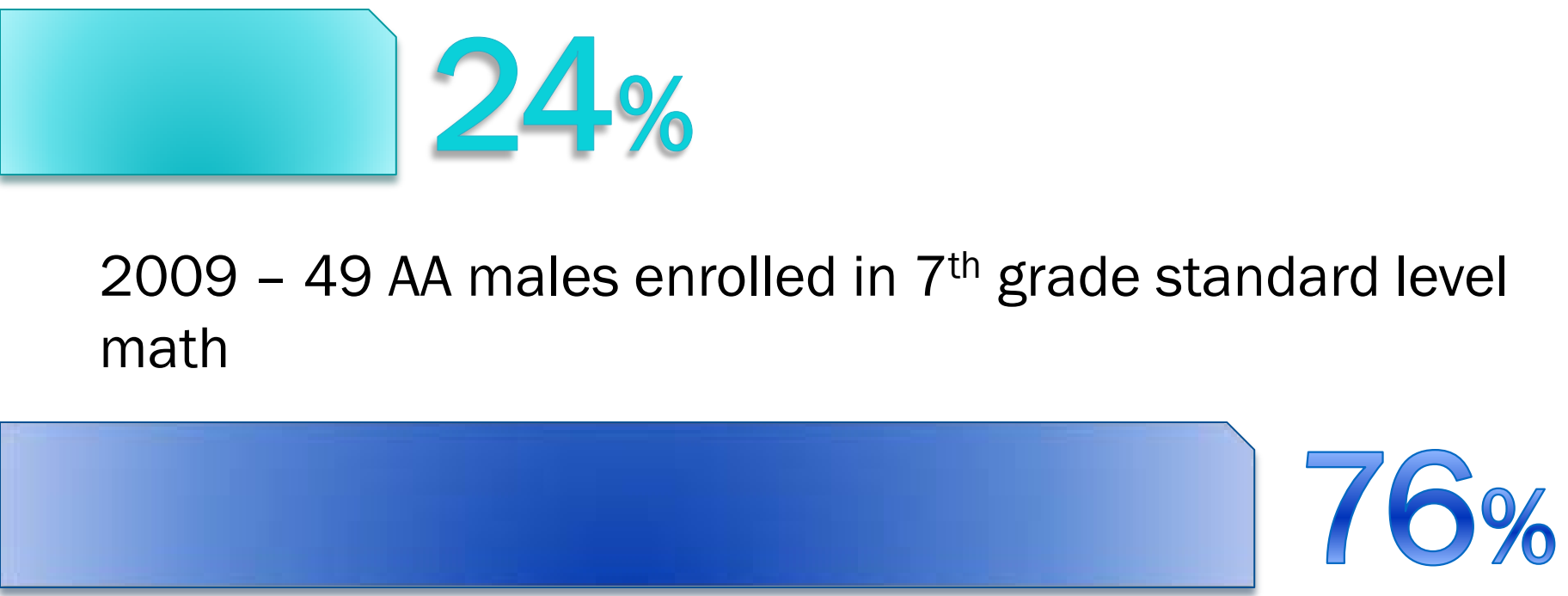
2009 – 26 AA males enrolled in 6th grade advanced math



2009 – 31 AA males enrolled in 6th grade standard level math



2009 – 15 AA males enrolled in 7th grade advanced math, with 3 in Algebra



24%

2009 – 49 AA males enrolled in 7th grade standard level math

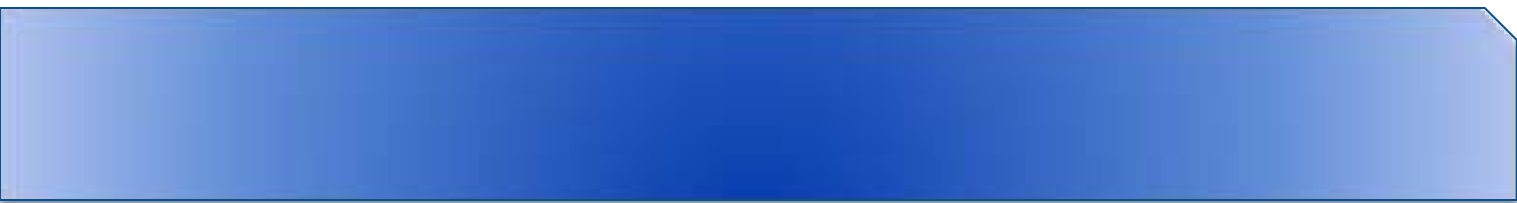
76%

2009 – 16 AA males enrolled in 8th grade advanced math, with 12 in Algebra and 2 in Geometry

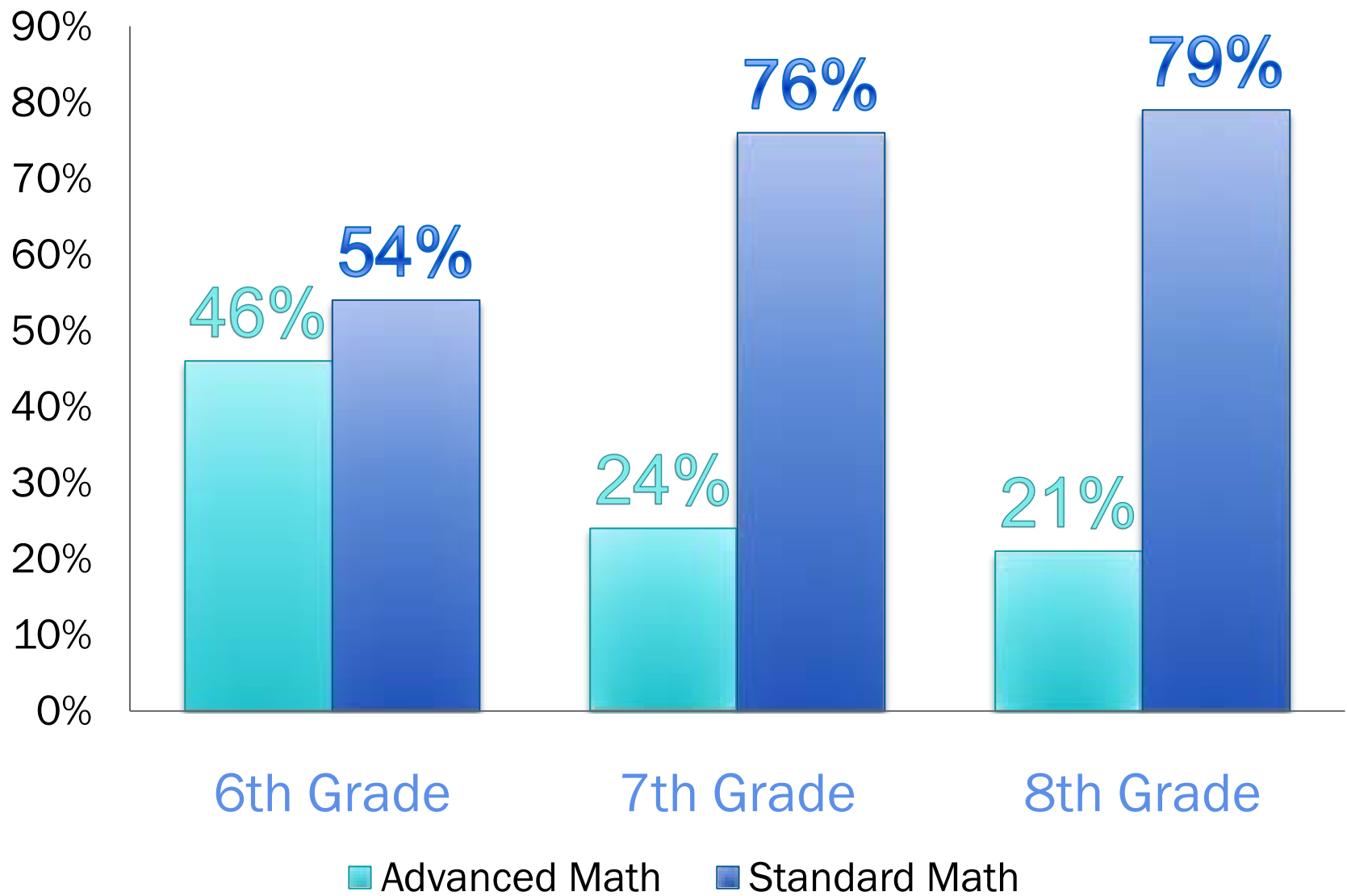


21%

2009 – 59 AA males enrolled in 8th grade standard level math



79%





Goal 2: Provide a rigorous pre-algebra curriculum that is enhanced by instructional approaches to address the learning styles of young African-American males.

- A project-based curriculum design.
- Students learned to apply representational tools—tables, graphs, numerical and algebraic notation, and certain natural language structures.
- Students learned to express functional relations among numbers and quantities and solve algebra problems.

Goal 3: Build healthy relationships between the student, his family, and school.

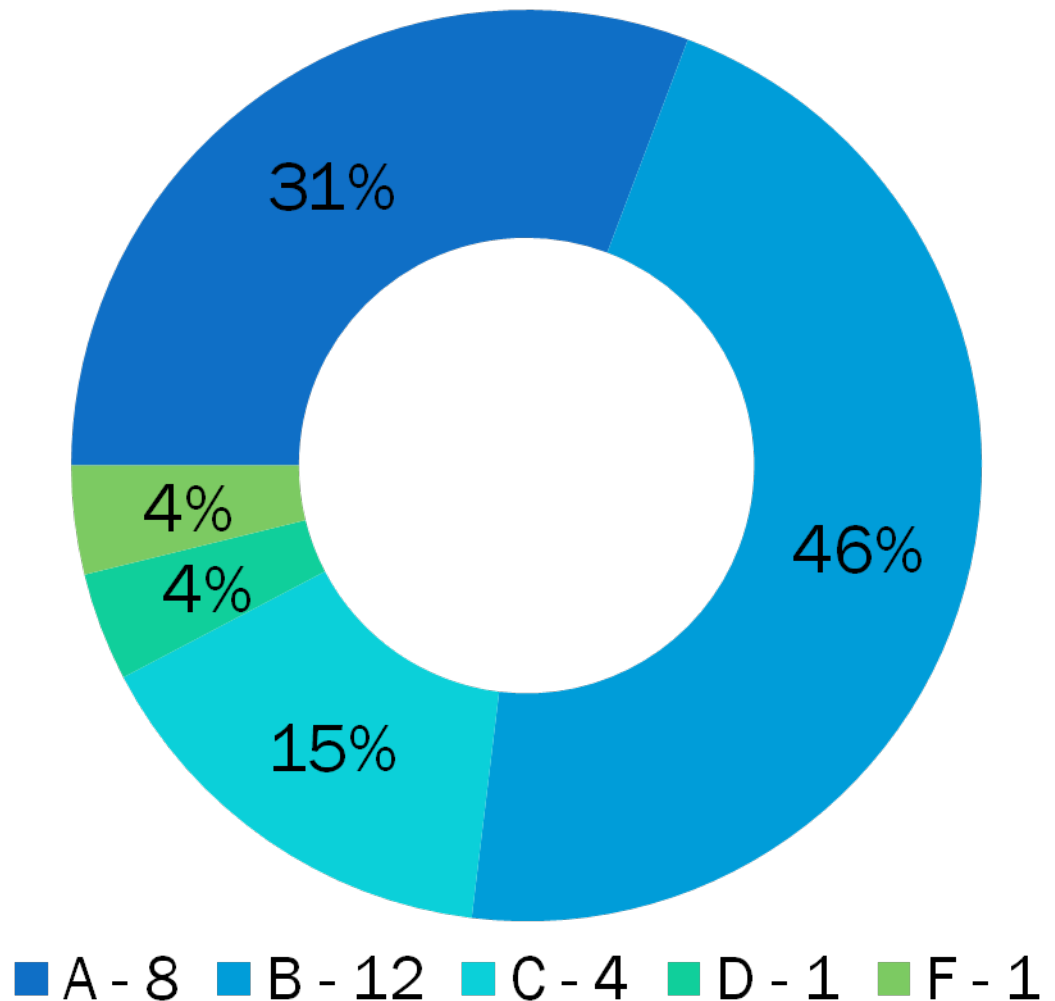
An achievement pledge was signed by the:

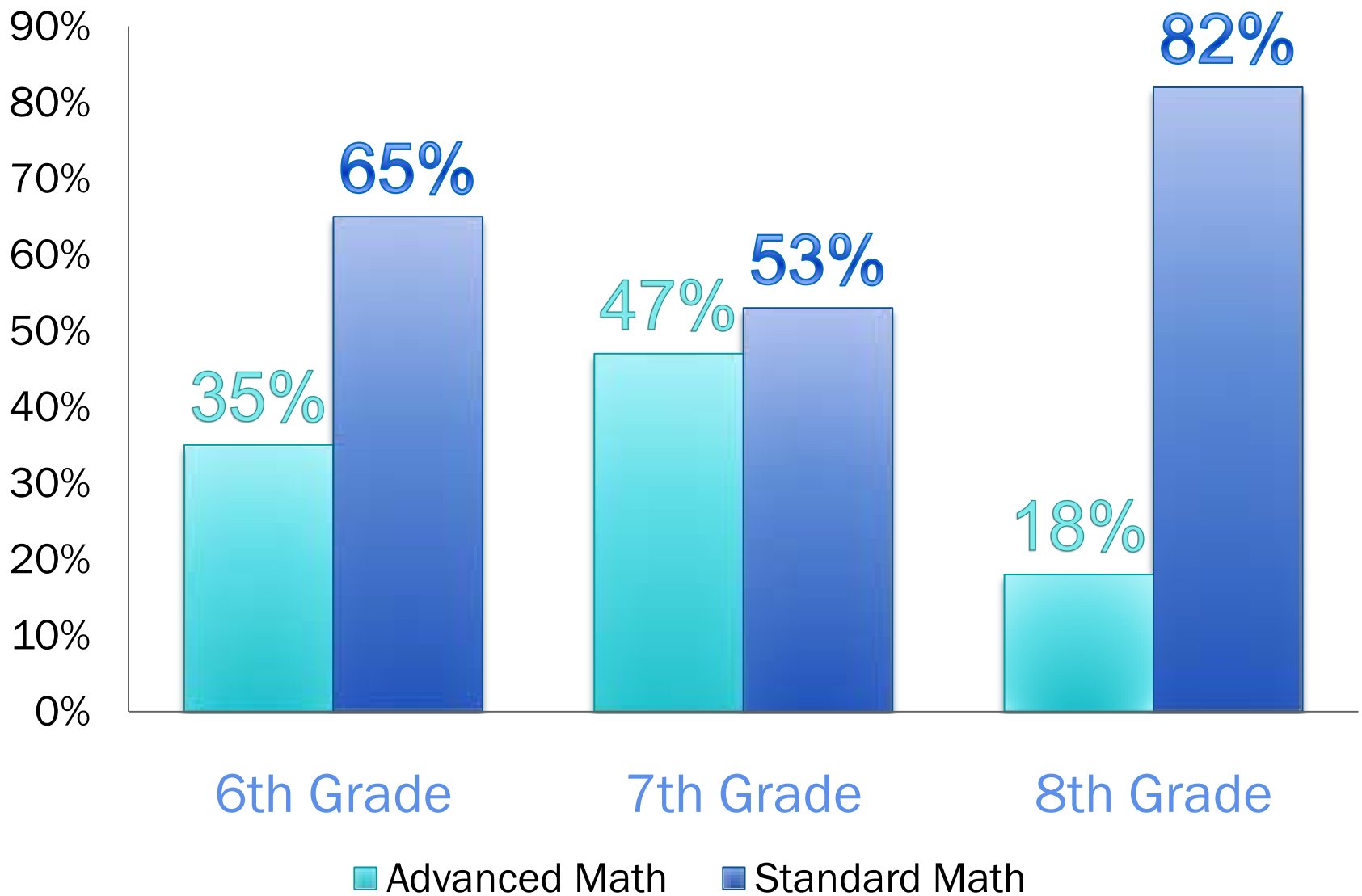
- ◎ Student and parent for shared ownership.
- ◎ 100 BMOCV to provide high quality instructional strategies by follow-up mentoring and tutoring system.
- ◎ Principal to enroll summer school program completers in an upper-level math class and cluster two or more completers in the same class where possible.

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- ◎ By September, mentors were assigned to each Math Cubed Program Completer.
 - ◎ Mentor, mentee and parents attended a UVA football game together in October.
 - ◎ Mentor, mentee and parents participated in a Goal Setting Workshop
 - ◎ Virginia Festival of the Film Movie Premiere Event

Goal 4: Establish a systemic support system for program enrollees and completers to realize more challenging academic successes. This will include academic tutors, a mentoring support, and parental coaching.

First 9-Week Grades
(28 mentees with mentors)





Development Steps

- 2010 program expansion of summer school session
 - Program design for second year enrollees 25-30 students—the current students
 - Repeat first year curriculum design for 30-40 rising 5th, 6th and 7th graders
- 2010 State Farm Grant request expansion and renewal



Questions and Comments Welcome