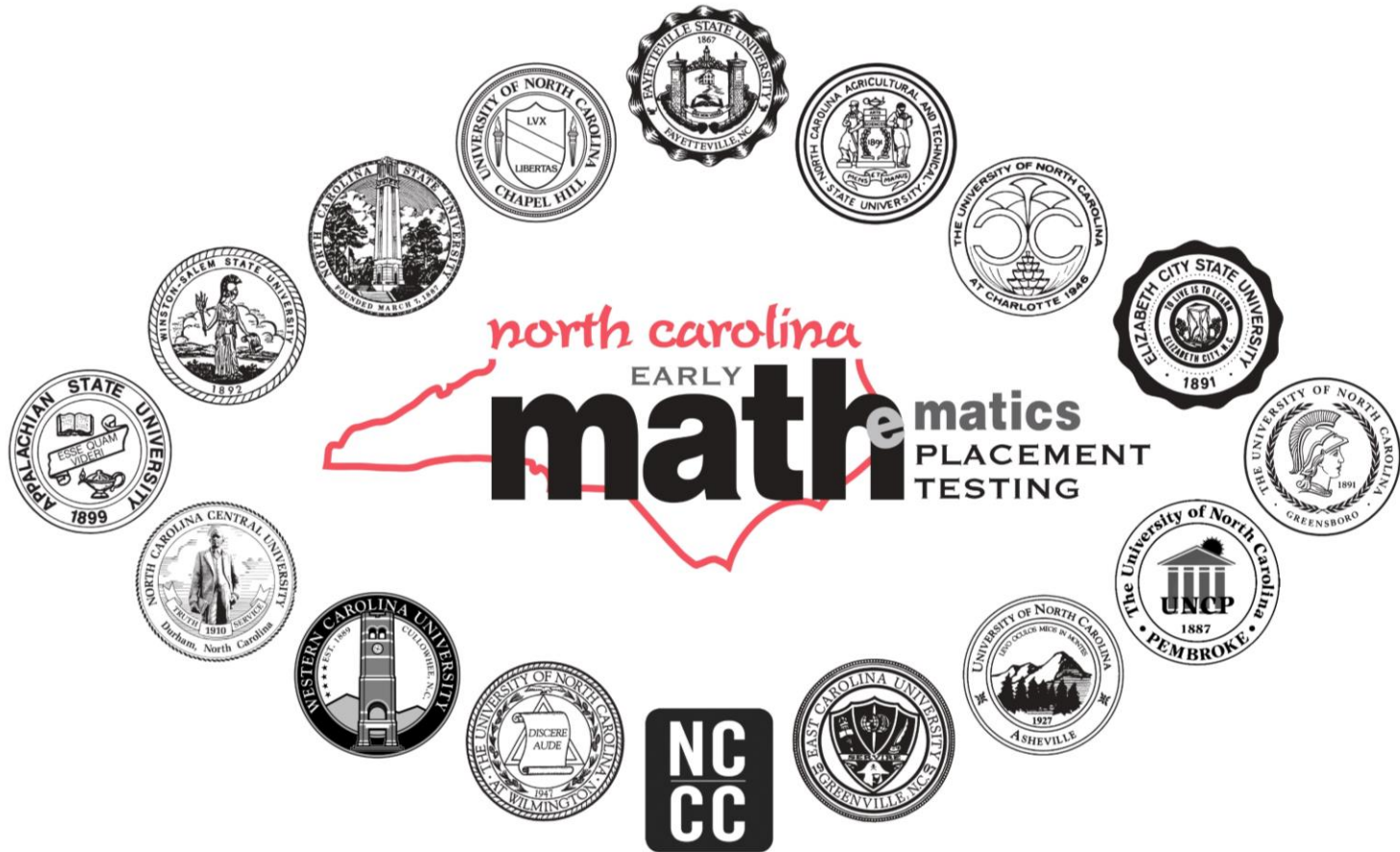


NC EMPT Advisory Board Meeting



October 4, 2024

Welcome to the Board!



Ashley Parrott

North Carolina Community College System Office

State Director of College Ready Graduates & Developmental Education
Division/Section: Programs & Student Services/Academic Programs



2024-25 Board Members



John Sevier
Appalachian State University



Guoqing Tang
NC A&T State University



Jeanne-Marie Linker
UNC - Charlotte



Charles A. Aiken
NC Dept of Public Instruction



Lisa Mabe Eads
NC Community College System Office



Scott Richter (tentative)
UNC - Greensboro



Lisa Ashe
NC Dept of Public Instruction



Ashley Parrott
NC Community College System Office



Hillary Sessions
UNC - Pembroke



Joseph Reaper
NC Dept of Public Instruction



Solomon Abraham
North Carolina Central University



Russ Herman
UNC - Wilmington



Valerie DeBellis
East Carolina University



Leslie Kurtz
North Carolina State University



Bethany Meighen
UNC System Office



Michael J. Spurr
East Carolina University



Stephanie Woodley
Pitt Community College



Ulisa E. Bowles
UNC System Office



Julian D. Allagan
Elizabeth City State University



Rudy Beharrysingh
UNC - Asheville



Katie Johnston
Winston-Salem State University



Radoslav Nickolov
Fayetteville State University



Jeremy Marzuola
UNC - Chapel Hill



Sibley Bryan
Western Carolina University

Affected by Hurricane Helene



Appalachian
STATE UNIVERSITY

UNIVERSITY of NORTH CAROLINA
ASHEVILLE



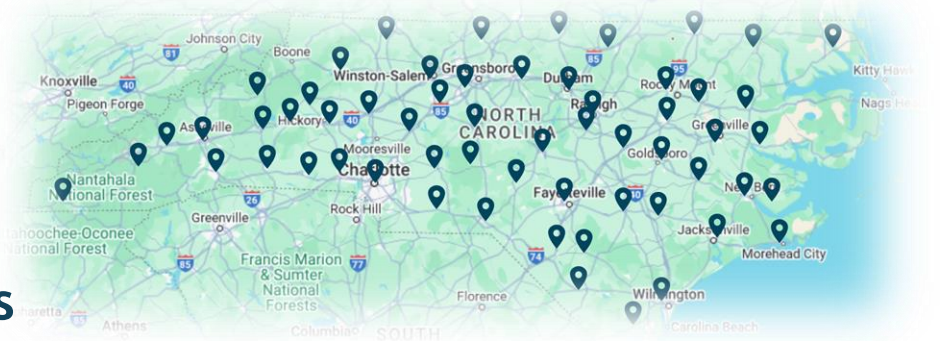
Western
Carolina
UNIVERSITY



North Carolina
School of Science
and Mathematics
-- Morganton



**26 of our 58 NC
Community Colleges**



2024 Speakers



Bethany Meighen
UNC System Office



Michelle Soler
UNC System Office



Ashley Parrott
NCCC System Office



Tamar Avineri
NCSSM



Charles A. Aiken
NC DPI



Joseph Reaper
NC DPI



Lisa Ashe
NC DPI



Valerie DeBellis
NC EMPT



Erin Cvetan
NC EMPT

NC K-16 SYSTEM | Updates

UNC System Office

- ▶ Bethany Meighen, Vice President for Academic and Student Affairs
- ▶ Michelle Soler, Assoc Vice President for Undergraduate Program

NC Community College System Office

- ▶ Ashley Parrott
State Director of College Ready Graduates and Developmental Education

NC Department of Public Instruction

- ▶ Charles Aiken, Section Chief, K - 12 Math, Science, and STEM
- ▶ Lisa Ashe, 6-12 Mathematics Consultant
- ▶ Joe Reaper, 6-12 Mathematics Consultant & Presidential Awards State Coordinator

Math Pathways Placement Subcommittee

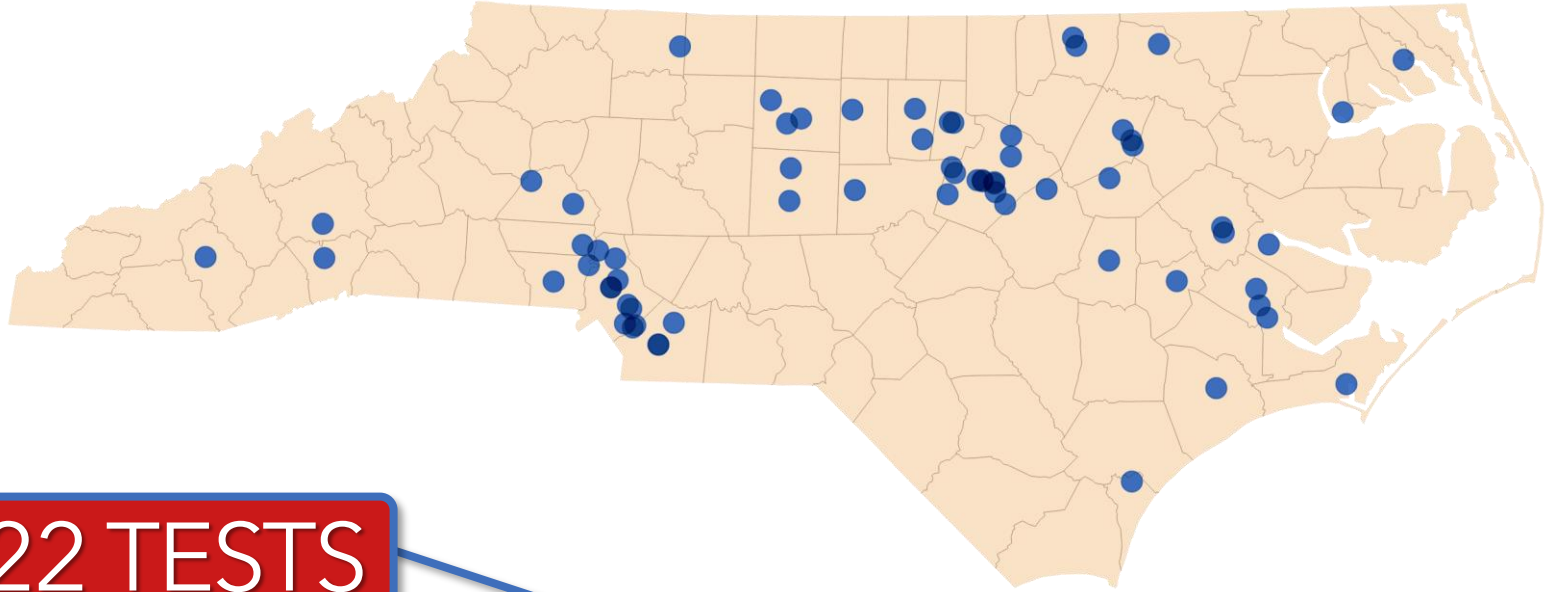
- ▶ Tamar Avineri, Math Chair, NC School of Science and Math,
UNC Math Pathways Taskforce Member & Placement Committee co-chair

NC EMPT Program Update

- ▶ Valerie DeBellis, NC EMPT Director, ECU Math Placement
- ▶ Erin Cvetan, NC EMPT MS Math Consultant



2022-2023 SCHOOL YEAR



5622 TESTS

139 TEACHERS

66 SCHOOLS

41 COUNTIES

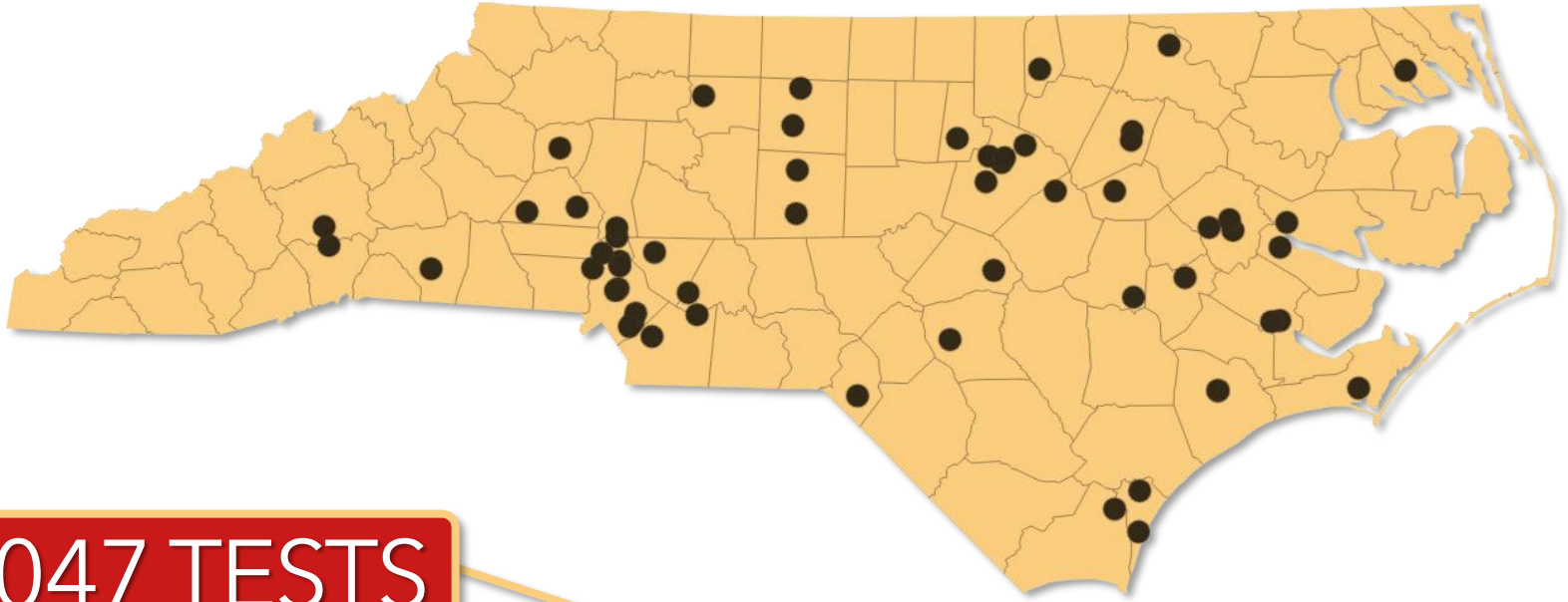
OVERALL AVERAGE PER STUDENT: 14.43 (out of 32)
OPTION 2 AVERAGE: 15.77 (out of 32)

40 PUBLIC SCHOOLS

6 CHARTER SCHOOLS

20 PRIVATE SCHOOLS

2023-2024 SCHOOL YEAR



5047 TESTS

109 TEACHERS

58 SCHOOLS

34 COUNTIES

OVERALL AVERAGE PER STUDENT: 14.55 (out of 32)
OPTION 2 AVERAGE: 15.67 (out of 32)

32 PUBLIC SCHOOLS
7 CHARTER SCHOOLS
19 PRIVATE SCHOOLS

2024-2025 SCHOOL YEAR (as of Sept 30)

NUMBER OF HIGH SCHOOLS: 34

19 PUBLIC SCHOOLS
4 CHARTER SCHOOLS
11 PRIVATE SCHOOLS

1,700 OPTION 1 TESTS
(2023-2024 Version)

2,689 OPTION 2 TESTS
(2024-2025 Version)

**NUMBER OF REGISTERED
NC EMPT TESTS: 4,389**

Thank you. Our students' interest in their scores has been growing over the years.

Crossroads Christian School
Henderson, NC

...my students love the detailed feedback!

Bandys High School
Catawba, NC

We love this test! It is a great wake up call for students. Thank you so much!

Arendell Parrott Academy
Kinston, NC

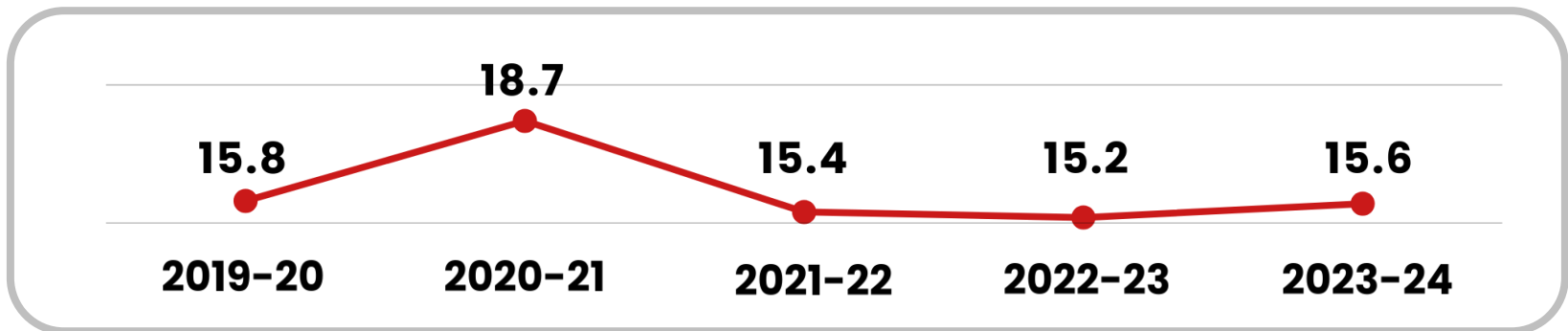
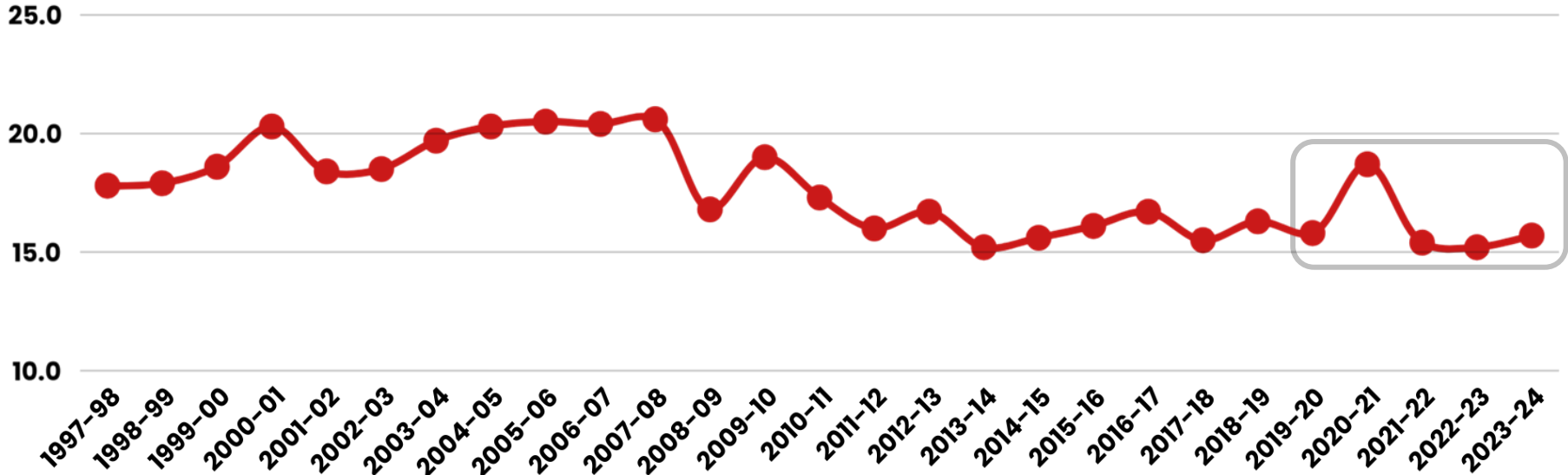
Rebuilding after COVID-19

Five Years in Review

NORTH CAROLINA EARLY MATHEMATICS PLACEMENT TESTING

AVERAGE SCORE PER STUDENT

BASED ON DATA FROM OPTION 2 TESTS



NORTH CAROLINA EARLY MATH PLACEMENT TESTING PROGRAM

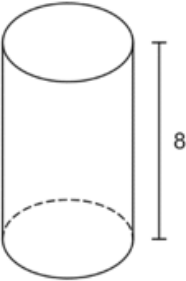
Providing a Timely Reality Check of Readiness for Post-Secondary Level Mathematics

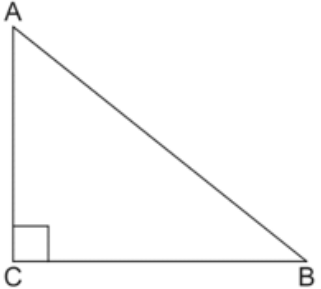


NC EMPT 2022-2023 Blue Test Version
3,636 high school student participants

TOP TEN MISSED QUESTIONS

Top 10 Missed	% MISSED	Test Item, 2022-2023 NC EMPT Blue Test Version
1. #30 in test booklet	89%	Consider the graph of the inequality $y > x + 2 $. What is the range of this inequality? A. $y < -2$ B. $y > 2$ C. $y \geq 0$ D. $y > 0$ E. all real numbers
2. #24 in test booklet	86%	If t varies directly as the square of u , and $t = 6$ when $u = 3$, find t when $u = 6$. A. $\frac{3}{2}$ B. 12 C. 4 D. 24 E. 8
3. #31 in test booklet	81%	Given two complex numbers, $A = (4 - 2i)$ and $B = (2i)$. Find the quotient $\frac{A}{B}$ A. $-1 + 2i$ B. 4 C. $2i - 1$ D. $1 - 2i$ E. $-1 - 2i$

Top 10 Missed	% MISSED	Test Item, 2022-2023 NC EMPT Blue Test Version
<p>4.</p> <p>#21 in test booklet</p>	<p>74%</p>	<p>The volume of a circular cylinder can be calculated using the formula $V = \pi r^2 h$. The volume of the given cylinder is 72π cubic inches and the height is 8 inches. What is the circumference of the base?</p> <p>A. 12π inches B. 9π inches C. 6π inches</p> <p>D. 4π inches E. 3π inches</p> 
<p>5.</p> <p>#25 in test booklet</p>	<p>71%</p>	<p>A result of multiplying $\frac{x^2-1}{x}$ and $\frac{4x^2}{x+1}$ is:</p> <p>A. $\frac{x-1}{4x^3}$ B. $\frac{(x^2-1)(x+1)}{4x^3}$ C. $\frac{(x+1)^2(x-1)}{4x^3}$</p> <p>D. $4x(x+1)$ E. $4x(x-1)$</p>
<p>6.</p> <p>#20 in test booklet</p>	<p>70%</p>	<p>Factor completely: $a^3 + 2a^2 - 4a - 8$. Which of the following is a factor of this polynomial?</p> <p>A. $(a+2)^2$ B. $(a-2)^2$ C. $(a+4)$</p> <p>D. $(a-4)$ E. This polynomial cannot be factored.</p>

Top 10 Missed	% MISSED	Test Item, 2022-2023 NC EMPT Blue Test Version	
7. #11 <i>in test booklet</i>	67%	Simplify: $(c^2d)^{-2}(cd^2)^2$ A. $\frac{c^2}{d^2}$ B. c^2d^2 C. c^3d^3 D. $\frac{c}{d}$ E. $\frac{d^2}{c^2}$	
8. #28 <i>in test booklet</i>	67%	Describe the roots of this quadratic equation: $x - 1 = x^2 - 2x + 1$ A. rational and unequal B. rational and equal C. irrational and unequal D. irrational and equal E. imaginary	
9. #32 <i>in test booklet</i>	66%	In right $\triangle ABC$, $a = \text{length of } \overline{CB}$, $b = \text{length of } \overline{AC}$, and $c = \text{length of } \overline{AB}$. Let $a = 3, b = 4, c = 5$. What is the value of: $\cos A + \sin B$? A. $\frac{8}{5}$ B. $\frac{7}{5}$ C. $\frac{25}{12}$ D. $\frac{6}{5}$ E. $\frac{8}{10}$	
10. #2 <i>in test booklet</i>	63%	The perimeter of a rectangle is 30 <u>feet</u> and its width is 5 feet. Find the ratio of the length of the rectangle to its width. A. 2:1 B. 6:5 C. 5:6 D. 6:1 E. 10:1	



Philosophy & Practice of Math Placement



NC EMPT | Initiatives & Development

- ▶ **High School Programs**
- ▶ **Rural Schools - edPIRATE**
- ▶ **ECU Math Placement**

- ▶ **NC EMPT Online Testing**
- ▶ **Middle School Programs**

Thank You

**for your participation and
commitment to NC EMPT!**

