

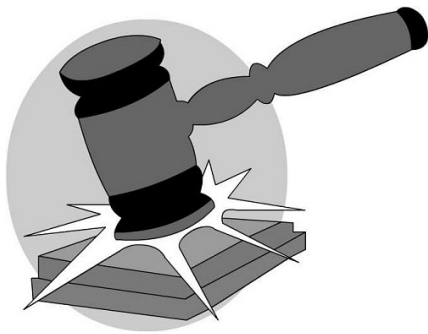
*The Greater Cleveland Council of Teachers of Mathematics*

# NUMBER NOTES

www.mygctm.org

*Mailed on or before November 22, 2008*

*Focus of the 2008-2009 School Year:  
The Equity Principle*



## How Statistics are used in Discrimination Cases

*presented by Tom Short*

Tom will present data from a real age discrimination case involving a company in Pittsburgh. Basic statistical methods will be used to explore the data and to develop evidence either for or against discrimination. He'll discuss the role statistics play in court and how much we should expect judges and juries to understand about statistical evidence.

Tom Short is a professor in the Department of Mathematics and Computer Science at John Carroll University. He joined the faculty at John Carroll after teaching for six years at Indiana University of Pennsylvania and for eleven years before that at Villanova University. Tom earned his B.S. in Mathematics from John Carroll, and he earned his M.S. and Ph.D. degrees in Statistics from Carnegie Mellon University.

**December 1, 2008**

**John Carroll University**

5:15 - 5:45 Refreshments

5:45 - 6:00 Business Meeting

6:00 - 7:00 Presentation

For more information, contact Jean Richardson, Northeast Director ,

[jrichardson@mayfieldschools.org](mailto:jrichardson@mayfieldschools.org)

www.mygctm.org

## *President's Message*

Dear GCCTM Members,

GCCTM President Tom Lanning is attending to a number of family matters as we open the school year. Our thoughts are with Tom, his wife, and his family as they face some critical life challenges.

- George Viebranz, GCCTM President-elect

### Equity in Mathematics Education

In 1990, the NCTM Board of Directors identified the “comprehensive mathematics education of every child” as its most compelling goal. NCTM's *Professional Standards for Teaching Mathematics*, issued in 1991, elaborated on this challenge:

"By 'every child' we mean specifically:

- "students who have been denied access in any way to educational opportunities as well as those who have not;
- "students who are African American, Hispanic, American Indian, and other minorities as well as those who are considered to be a part of the majority;
- "students who are female as well as those who are male; and
- "students who have not been successful in school and in mathematics as well as those who have been successful.

It is essential that schools and communities accept the goal of mathematical education for every child. However, this does not mean that every child will have the same interests or capabilities in mathematics.

It does mean that we will have to examine our fundamental expectations about what children can learn and can do, and that we will have to strive to create learning environments in which raised expectations for children can be met."

Nearly 20 years later, we as mathematics educators should pause to reflect on our respective districts' practices and ask if we have made the kind of progress that was envisioned in 1990. To help us reflect, consider the following questions:

Does “tracking” and ability grouping continue to be a part of your district’s belief system? Are some students denied the opportunity to learn appropriate and challenging mathematics because of adult decisions?

Has the minimum expectation for what students will achieve in mathematics been raised in your district over the past decade? Are more students taking and achieving competency in Algebra 2 or its equivalent as part of their graduation expectations?

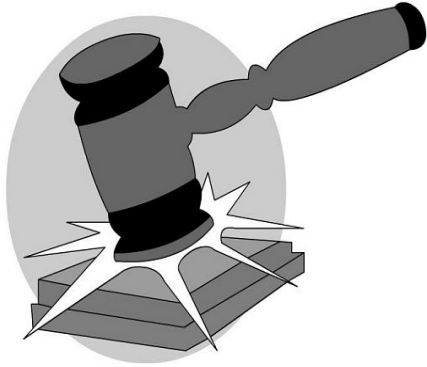
Has your district made its required mathematics curriculum more coherent, and more focused on the expectations described by the Ohio Department of Education’s Academic Content Standards, or have we invented even more circuitous ways for students to earn credit without learning the mathematics that is critical to their future as 21<sup>st</sup> Century citizens?

Are your district leaders, counselors and teachers talking about how to support more children in meeting the *Ohio Core* expectations and the scholarship opportunities that *Choose Ohio First* brings to increase science and mathematics degree attainment for more students?

Does “all” truly mean “all” in your district? If not, what part of “all” don’t we understand?

Northeast District Meeting  
[www.mygcctm.org](http://www.mygcctm.org)

# How Statistics are used in Discrimination Cases



*presented by* Tom Short

**December 1, 2008**

John Carroll University, Dolan Center –Room E241  
20700 North Park Boulevard, University Heights, OH 44118

5:15 - 5:45	Refreshments
5:45 - 6:00	Business Meeting
6:00 - 7:00	Presentation

For more information contact Jean Richardson, Northeast Director ,

[jrichardson@mayfieldschools.org](mailto:jrichardson@mayfieldschools.org)

Cost: \$8 for GCCTM members and \$18 for non-members (includes a one-year membership and light dinner). Non-members must fill out and return membership form (available in this newsletter or on the web, [www.mygcctm.org](http://www.mygcctm.org).) to ensure accurate registration.

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Please email Jean Richardson an RSVP by November 29 and then pay at the event. [jrichardson@mayfieldschools.org](mailto:jrichardson@mayfieldschools.org)

Name \_\_\_\_\_

Email \_\_\_\_\_

Phone Number \_\_\_\_\_ work \_\_\_\_\_ home

Address \_\_\_\_\_

City/State/Zip Code \_\_\_\_\_

School / District / Grade Level \_\_\_\_\_

## The Greater Cleveland Council of Teachers of Mathematics

Membership dues are \$10.00 for one year, \$45.00 for five years, and \$85.00 for ten years. Please continue or start your membership by filling out this form and by writing a check, payable to GCCTM, for the appropriate amount. Mail both to:

**GCCTM Membership, 15690 Balmoral Ct., Strongsville, Ohio 44136-2594**

If you don't need this form, please share it with a nonmember. Please print or type.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Assignment level (circle as appropriate)

Pre-service teacher K 1 2 3 4 5 6 7 8 9 10 11 12 College

District (circle): Central East Northeast South West

School: \_\_\_\_\_

System: \_\_\_\_\_

Phone (work) \_\_\_\_\_ e-mail address \_\_\_\_\_

Enclosed is \$ \_\_\_\_\_ for \_\_\_\_\_ year(s) membership in GCCTM

Renewal \_\_\_\_\_ New \_\_\_\_\_

**Central:** Cleveland City Region

**East:** Beachwood, Bedford, Chagrin Falls, Maple Hts., Orange, Shaker Hts., Solon, Warrensville Hts., Summit County schools

**Northeast:** Cleveland Hts./University Hts., East Cleveland, Eastlake, Euclid, Mayfield, Richmond Hts., South Euclid/Lyndhurst, West Geauga, Wickliffe, Willoughby Hills

**South:** Brecksville, Brooklyn, Brunswick, Buckeye, Cuyahoga Hts., Garfield Hts., Highland, Independence, Medina, North Royalton, Parma, Strongsville

**West:** Avon, Avon Lake, Bay Village, Berea, Columbia Station, Fairview Park, Lakewood, North Olmsted, North Ridgeville, Olmsted Falls, Rocky River, Westlake

**If your school district is not listed, you are in the region of the school district closest to your own.**

**CONTACT: Tom Lanning at (440)427-6056 or [tlanning@leeca.org](mailto:tlanning@leeca.org) for student membership forms**

## GCCTM Officer Information



President: Tom Lanning  
President-elect: George Viebranz  
Vice President: Teresa Graham  
Secretary: Lynn Aring  
Treasurer: Jerry Moreno

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[moreno@jcu.edu](mailto:moreno@jcu.edu)

### District Directors:

Central: Lou Gliha  
East: Carla Kehres  
Northeast: Jean Richardson  
South: Dick Little  
West: Donna Langenderfer  
5/6 Contest Contact: Laura Little  
5/6 Contest Contact: Nancy Ross  
7/8 Contest contact: Adele Cohn  
Book Study Chair: Caroline Borrow  
NCTM Representative: Laura Anfang  
Membership: Fred Dillon  
Newsletter: Cathy Staveteig  
Publicity Chair: Louisa Matthias

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# GCCTM Calendar 2008-2009

[www.mygcctm.org](http://www.mygcctm.org)

<i>Date:</i>	<i>Event:</i>	<i>Contact:</i>
December 1, 2008	Northeast District	Jean Richardson
January 5, 2009	Newsletter Deadline	Cathy Staveteig
Week of Jan. 26, 2009	South District	George Viebranz
February 16, 2009	Newsletter Deadline	Cathy Staveteig
Week of March 9, 2009	West District	Donna Langenderfer
April 20, 2009	Newsletter Deadline	Cathy Staveteig
April, 2009	7-8 Contest	Adele Cohn
May 16, 2009	5-6 Contest	Laura Little and Nancy Ross
Week of May 18, 2009	East District Awards Banquet	Carla Kehres

GCCTM  
15690 Balmoral Court  
Strongsville, OH 44136

*GCCTM: Renewal notices  
are on your mailing label.  
Please use themembership form inside.*