

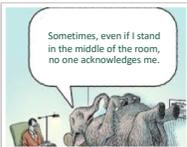
## The Elephant in the Room: Identifying Underrepresented Populations

Jack A. Naglieri – Research Professor, Univ. of Virginia

**Contributors to this ppt:**

Dina Brulles – Director of Gifted Education, Paradise Valley USD  
 Kimberly Lansdowne – Executive Director, Arizona State University





Sometimes, even if I stand in the middle of the room, no one acknowledges me.

**Mystery Number is 848,400**



**THE ELEPHANT IN THE ROOM**  
*let's talk about it*

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This site was created to provide users with resources that both practitioners and educators alike...  
 Jack Naglieri, PhD, is a professor of psychology and educational psychology at the University of Virginia. He is also a frequent speaker at national and international conferences on giftedness and assessment. He has authored or co-authored several books and articles on giftedness and assessment.

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## Conclusions in the Era of BLM

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- ▶ Gifted identification based on verbal, nonverbal and quantitative tests requires too much knowledge of
  - the language used in the directions (V, NV, Q)
  - the content of questions (V & Q)
  - Verbal responses (individually administered)
- ▶ Students who come from low income families, are culturally different, or limited English skills are not assessed accurately
- ▶ Many Hispanic and Black students are denied entry to gifted education and therefore they don't reach their potential
- ▶ BUT...WE CAN and **MUST DO BETTER** especially **NOW!**

Ideas to Consider

Introduction

Measurement of General Ability

Three New Tests

How to Identify Gifted Students

## How and Why...

- My work in equitable assessment began in 1982
  - Lecture on Navajo Indians
  - Havasupai Indian Reservation
- First Research
  - Naglieri, J. A. (1982). Does the WISC-R measure verbal intelligence for non-English speaking children? *Psychology in the Schools*, 19, 478-479.
- First Test
  - Matrix Analogies Tests Individual and Group administrations (1985)
- First Book
  - Helping All Gifted Students Learn (Naglieri, Brulles & Lansdowne, 2009)



## Tests Created with Equity as a Goal

1. Naglieri, J. A. (1985). *Matrix Analogies Test - Expanded Form*. San Antonio: The Psychological Corporation.
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12. Naglieri, J. A. (2021). *Naglieri Ability Test: Nonverbal*. Markham, Canada: Multi-Health Systems.
13. Naglieri, J. A. & Brulles, D. (2021). *Naglieri Ability Test: Verbal*. Markham, Canada: Multi-Health Systems.
14. Naglieri, J. A. & Lansdowne, K. (2021). *Naglieri Ability Test: Quantitative*. Markham, Canada: Multi-Health Systems.

## Obstacle to Equitable Identification

- Clarification of terms...
  - Gifted = very smart
  - Talented = very accomplished
- Identification procedures
  - Gifted/Talented students are often identified with traditional IQ tests comprised of
    - verbal and quantitative tests that demand knowledge of English
    - Verbal directions that include many verbal concepts
- Using a test of ability that demands knowledge of English and understanding verbal directions is not reasonable

Does a verbal test that demands English really make sense?

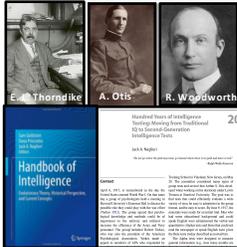
## Opportunity to learn and Test Bias

- According to the *Standards for Educational and Psychological Testing* (AERA, APA & NCME, 2014), if a person has had limited opportunities to learn the content in a test of intelligence, that test may be considered **unfair because** it penalizes students for not having learned the content
- **Equitable assessment** can be achieved if all examinees have equal opportunity to perform
- The Standards also remind us that **even if the norming data do not demonstrate psychometric bias tests can still be considered unfair.**



### Army Mental Testing (Yoakum & Yerkes)

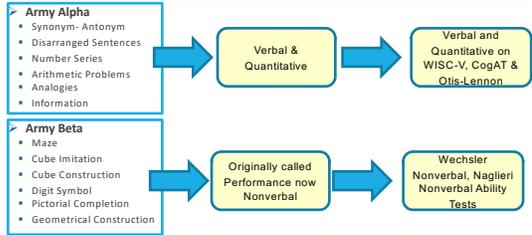
<http://www.jacknaglieri.com/cas2.html>



➤ A group of psychologists met at Harvard in April of 1917 to construct an ability test to help the US military evaluate recruits (WWI) for responsible positions

➤ Their goal was to develop a workable set of tests called the Army Alpha & Beta

### From Alpha & Beta to Wechsler IQ



### Take this IQ Test

- |   |                      |
|---|----------------------|
| 1. Bull Durham is the name of               | 1. <b>tobacco</b>    |
| 2. The Mackintosh Red is a kind of          | 2. <b>fruit</b>      |
| 3. The Oliver is a                          | 3. <b>typewriter</b> |
| 4. A passenger locomotive type is the       | 4. <b>Mogul</b>      |
| 5. Stone & Webster are well know            | 5. <b>engineers</b>  |
| 6. The Brooklyn Nationals are called        | 6. <b>Superbas</b>   |
| 7. Pongee is a                              | 7. <b>fabric</b>     |
| 8. Country Gentleman is a kind of           | 8. <b>corn</b>       |
| 9. The President during the Spanish War was | 9. <b>McKinley</b>   |
| 10. Fatima is a make of                     | 10. <b>cigarette</b> |

From: Psychological Examining the United States Army (Yerkes, 1921, p. 213)

### Gifted Identification

- This presentation is about children who may not have good grades, or the academic skills or command of English, yet they are very smart – **gifted**
- These children can become very **talented** given the opportunity to learn
- How many children like this are in our country?

848,400 non-White  
247,500 ELL gifted  
in grades K-12 not served

**Number of Students Missed = 848,402**

WHY are so many of these students missed?

US Population	Potentially Gifted (8% of US Population)	Actual Numbers of Students in Gifted & Talented Programs	Numbers of students Not Identified
White	26,822,830	2,145,834	2,065,366
Black	8,338,726	692,480	366,823
Hispanic	18,988,493	1,571,094	778,545
Native American	572,330	45,786	25,181
Two or More Races	1,782,795	142,439	121,026
Total non-White	26,778,728	2,141,879	1,203,571

	N of ELL in Public Ed	N Potentially Gifted (8%)	N Students Identified	N Missed (% Missed)
White	294,793	23,583	6,548	15.033 (64%)
Black	178,143	14,251	5,349	9.509 (67%)
Hispanic	3,772,819	301,825	109,400	192,424 (64%)
Asian	511,702	40,936	6,829	28,097 (69%)
Pacific Islander	26,992	2,159	793	1,377 (64%)
Native Am./ Alaska Native	88,792	7,103	1,125	1,978 (64%)
Two or More Races	21,124	1,690	769	1,018 (60%)
Total	4,854,350	388,333	140,771	247,562

### National Survey of Gifted Education

Which of the following assessments does your district use to identify gifted students? Select all that apply.

These tests have verbal and quantitative questions

- CogAt: 21%
- Nonverbal Intelligence Scale for Children: 40%
- Hughes Horizontal Ability Test: 14%
- Woodcock Johnson: 26%
- ITBS: 22%
- Gifted Learning: 12%
- Stanford Binet L4: 13%
- Test of Nonverbal Intelligence: 11%
- District-created assessment: 10%
- ACE: 9%
- Raven's Progressive Matrix: 7%
- Test of Mathematical Abilities of Gifted Students: 5%
- GAT: 5%
- NAT: 2%
- SEA: 1%
- Henneman-Nelson: 1%
- Other: 4%

### Percentages of Group Administered Tests Used for GT Identification

Thinking and Knowing Continuum

Usage data from: Kurtz, H., Harwin, A., Chen, Y. & Furuya, Y. (2019). Gifted education: Results of a national survey. Bethesda, MD: Education Week Research Center.

We estimated the amount of knowledge included in the most widely used tests used to identify gifted students according to the results of a 2019 survey (Kurtz, Harwin, Chen & Furuya). The number of scales in each test that required knowledge was determined and expressed as a percentage of the total number of scales.

### 1920 Army Testing (Yoakum & Yerkes)

Note there is no mention of measuring verbal and nonverbal intelligences – they saw a social justice issue...and today in the era a BLM the need is even more urgent

METHODS AND RESULTS 19

Why Beta? Men who fail in alpha are sent to beta in order that injustice by reason of relative unfamiliarity with English may be avoided. Men who fall in beta are referred for individual examination by means of what may appear to be the most suitable and altogether appropriate procedure among the varied methods available. This reference for careful individual examination is yet another attempt to avoid injustice either by reason of linguistic handicap or accidents incident to group examining.

### NNAT's Small Race & Ethnic Differences

Race	N	Mean	Diff
White	2,306	99.3	
Black	2,306	95.1	4.2
White	1,176	101.4	
Hispanic	1,176	98.6	2.8
White	466	103.6	
Asian	466	103.0	0.3

**Table 14. Standard Score Mean Differences by Race on Traditional and Nontraditional Intelligence Tests**

Test	Difference
Traditional IQ Test	
SB-IV (normed sample)	12.6
WISC-IV (normative sample)	11.5
WJIII (normative sample)	10.9
WISC-IV (normed sample)	10.0
Nontraditional Test	
K-ABC (normative sample)	7.0
K-ABC (normed sample)	6.1
K-ABC-II (normed sample)	5.0
CAS2 (normative sample)	6.3
CAS2 (demographic controls of normative sample)	6.8
CAS2 (demographic controls of normative sample)	4.3

**Comparison of White, African American, Hispanic, and Asian Children on the Naglieri Nonverbal Ability Test**

Jack A. Naglieri and Margaret E. Bruning  
The Ohio State University

### NNAT Identified Equal Percentages

**Table 2**  
NNAT Scores

Score	White		Black		Hispanic		Expected	
	n	%	n	%	n	%	n	%
120 & above	1,571	10.3	209	9.4	190	9.5	9.0	
125 & above	956	5.0	185	8.1	88	4.4	5.0	
130 & above	407	2.5	75	3.6	46	2.3	2.0	
135 & above	190	1.1	42	1.8	18	0.9	1.0	
140 & above	90	0.6	19	0.6	9	0.4	0.4	
<b>Total Sample</b>	<b>14,341</b>		<b>2,863</b>		<b>1,991</b>			

**Addressing Underrepresentation of Gifted Minority Children Using the Naglieri Nonverbal Ability Test (NNAT)**

Jack A. Naglieri  
George Mason University

Abstract: Gifted and talented students are underrepresented in gifted and talented programs. This study examined the NNAT as a measure of giftedness for minority children. The NNAT was administered to a sample of 14,341 children from grades 1-7. The results showed that the NNAT identified equal percentages of Black, White, and Hispanic students who earned a standard score of 125 (95th percentile) or above. This finding suggests that the NNAT may be a more equitable measure of giftedness for minority children.

**Very Similar percentages of Black, White and Hispanic students earned a standard score of 125 (95th percentile) or above**

### Hispanic Children

**BRIEF REPORTS**  
Comparison of Hispanic Children With and Without Limited English Proficiency on the Naglieri Nonverbal Ability Test

Jack A. Naglieri  
George Mason University

Adrian Wislar  
George Mason University

Abstract: Limited English proficiency (LEP) is a barrier to academic achievement for many Hispanic children. This study examined the NNAT as a measure of giftedness for LEP Hispanic children. The NNAT was administered to a sample of 1,176 Hispanic children from grades 1-7. The results showed that the NNAT identified equal percentages of LEP and non-LEP Hispanic children who earned a standard score of 125 (95th percentile) or above. This finding suggests that the NNAT may be a more equitable measure of giftedness for LEP Hispanic children.

**104**  
**102**  
**100**  
**98**  
**96**  
**94**  
**92**  
**90**  
**88**  
**86**

**NNAT Voc Reading Math**

### No Gender Differences on NNAT

Available online at [www.elsevier.com](http://www.elsevier.com)

Developmental gender differences on the Naglieri Nonverbal Ability Test in a nationally normed sample of 5-17 year olds

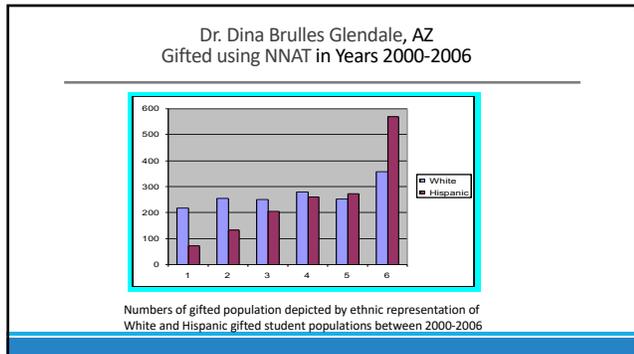
Johannes Rohrer\*, Jack A. Naglieri  
George Mason University, United States

Received 22 June 2005; revised 14 September 2005; accepted 20 September 2005  
Available online 14 December 2005

**Abstract**  
Lynn (1988) has identified gender differences in the progressive matrices test. In the present study, data from Black, African American, and Hispanic children (N = 1,991) are analyzed to determine if gender differences exist in the NNAT. The results showed that the NNAT identified equal percentages of Black, White, and Hispanic children who earned a standard score of 125 (95th percentile) or above. This finding suggests that the NNAT may be a more equitable measure of giftedness for minority children.

**110**  
**105**  
**100**  
**95**  
**90**

**A B C D E F G**



Ideas to Consider

- Introduction
- Measurement of General Ability
- Three New Tests
- How to Identify Gifted Students

**Wechsler (1939)**

- Built his IQ test on the Army Alpha and Beta
- His definition of intelligence was "The aggregate or global capacity of the individual to act purposefully, to think rationally, and to deal effectively with his environment (1939)"
- but his test yielded a Verbal IQ and Performance IQ suggesting two types of intelligence

**Wechsler & Spearman's *g***

of nonverbal assessment many paces forward. In addition, the emphasis in the *WNV Manual* that the Full Scale measures *general ability nonverbally*—and not nonverbal ability—is an important distinction that further ties the WNV to Dr. Wechsler. Although his intelligence tests in the 1930s and 1940s departed from the one-score *Stanford-Binet* by offering separate Verbal and Performance IQs as well as a profile of scaled scores, Dr. Wechsler remained a firm believer in Spearman's *g* theory throughout his lifetime. He believed that his Verbal and Performance Scales represented different ways to access *g*, but he never believed in nonverbal intelligence as being separate from *g*. Rather, he saw the Performance Scale as the most sensible way to measure the general intelligence of people with hearing impairments, language disorders, or limited proficiency in English. And that is precisely what the WNV is intended to do.

Alan S. Kaufman, PhD  
 Clinical Professor of Psychology  
 Yale Child Study Center  
 Yale University School of Medicine



These questions require General Ability!

Which word is different:  
girl dog chair fish ?

3 is to 6 as 5 is to \_\_\_\_?

C<sup>7</sup> is to F as E<sup>7</sup> is to \_\_\_\_?

Despite the differences in content, each of these questions requires understanding the relationships among parts.

How do  
*different* tasks  
use the *same*  
ability?

### General Ability

- Even though the tasks were different in content (shapes, words, numbers) they all rely on general ability as described by Wechsler and many others
- The reason is that they all require understanding relationships among things or ideas

No Way!

Is Verbal an ability?

Just take out the language?

## Questions or thoughts ?

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Ideas to Consider

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Introduction

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Measurement of General Ability

---

Three New Tests

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How to Identify Gifted Students

# Introducing The Naglieri General Ability Tests (Naglieri, Brulles & Lansdowne, 2021)

Naglieri Verbal (Naglieri & Brulles, 2021)  
 Naglieri Nonverbal (Naglieri, 2021)  
 Naglieri Quantitative (Naglieri & Lansdowne, 2021)



## Publisher



- The Naglieri General Ability Tests: Verbal, Nonverbal & Quantitative are published by Multi-Health Systems (MHS)
  - [mhs.com](https://mhs.com)
- They also publish my:
  - Autism Spectrum Rating Scale (ASRS)
  - Comprehensive Executive Function Inventory (CEFI)
  - Cognitive Assessment System 2<sup>nd</sup> Edition (CAS2)



## Measuring Ability Equitably

Dina Brulles, Kim Lansdowne and I have constructed three new tests that will be used for identification of gifted students

The focus of these tests is **EQUITABLE ASSESSMENT** of all students

The tests measure general ability using three types of content: Verbal, Nonverbal and Quantitative

- Naglieri **Nonverbal** (Naglieri, 2021)
- Naglieri **Verbal** (Naglieri & Brulles, 2021)
- Naglieri **Quantitative** (Naglieri & Lansdowne, 2021)

## Naglieri General Ability Tests (Naglieri, Brulles & Lansdowne, 2021)



- The *General Ability Tests* are group or individually administered using online or paper formats ages 4 to 18.
- Test items are presented using diagrams and pictures.
- The questions demand reasoning while requiring little to no academic content and can be solved regardless of the language(s) spoken by the student.
- We use animated directions when taken online or comic strip display of directions for paper-and-pencil format.
- To identify gifted students from diverse cultural, linguistic, or socioeconomic backgrounds, or those who have had limited educational experiences.



Dr. Jack S. Naglieri  
University of Virginia

Dr. Kimberly Lansdowne  
Western Michigan University

Dr. Dina Brulles  
Florida State University

### Goals in Making the General Ability Test Battery

- Taking English out of the testing *environment*
- Present test *instructions* using either pictorial or animated formats
- Create a Verbal test *questions* that can be solved using any language
  - The test is based on a neuropsychological concept from A. R. Luria which demand identification of verbal concepts
- Create a new version of nonverbal matrices
  - New ways of constructing progressive matrices have been developed which demand understanding the relationships among graphical stimuli
- Create a Quantitative test *questions* that do not require language
  - Several types of items are used to evaluate how well a student understands quantitative relationships

### Our Tests Measure *Thinking* not *Knowing*

- What does the student have to know to complete a task?
  - This is dependent upon educational opportunity



- How does the student have to think to complete a task?
  - This is dependent on the brain



### Test Directions

- *California Achievement Test & Iowa Test of Basic Skills* instructions include many basic concepts that students may not have mastered at the ages for which the tests were intended (Cummings & Nelson, 1980)
- Students' ability to recall directions presented orally was related to their working memory capacity. (Randall, Engle, Carullo, & Collins, 2015)
- CogAT *nonverbal* scale demands comprehension of *verbal* directions
  - The instructions for 5 and 6-year-olds contain approximately 400 words and many verbal concepts and complex verbal statements like: *The small circle goes with the large circle in the same way that the small square goes with the large square.*
- The inclusion of verbal concepts and strain on working memory are an obstacle for any student with limited verbal skills

### Pictorial Instructions for All Students

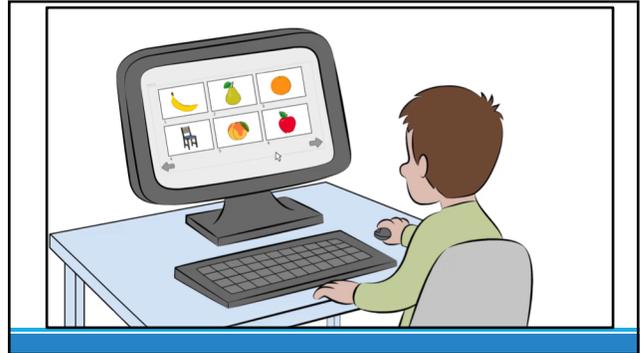
- The **paper forms** for the Naglieri General Ability Test Battery have *pictorial directions* that greatly reduce the need for verbal instructions
- The instructions for the **online version** are **presented in a video**
- Additional explanation is permitted as needed in both versions of the tests
  - Naglieri Nonverbal (Naglieri, 2021)
  - Naglieri Verbal (Naglieri & Brulles, 2021)
  - Naglieri Quantitative: (Naglieri & Lansdowne, 2021)





## Description of the Verbal Measure of General Ability

Naglieri & Brulles (in preparation)

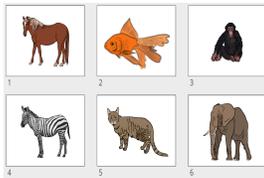


## Naglieri Ability Test - Verbal

This test was modeled after an approach described by A. R. Luria (1966) to evaluate verbal conceptual thinking.

Luria (1982) stated that language involves, "a complex system of codes (p. 29)" where, "every word designates a thing, an attribute, an action or a relationship (p 34)."

The task, referred to as superfluous fourth, demands that a subject reason and identify which word does not belong with the others, for example, "rose, daisy, stem, tulip."



Authors: Jack Naglieri & Dina Brulles

## Verbal Pilot Study Results (2019)

- **SAMPLE**
  - 2,482 That closely matches the US population on key demographics
- **GENDER**
  - No difference between males and females for raw score across all forms
- **RACE/ETHNICITY**
  - No differences among White, Black, & Hispanic for raw score across all forms
- **PARENTAL EDUCATION LEVEL**
  - No differences among five education levels (No high school diploma; High School graduate; Some college/Associate's degree; Bachelor's degree; Graduate/professional degree) for raw score across all forms



## Description Of The Nonverbal Measure Of General Ability

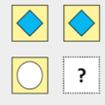
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Naglieri (2021)



### Naglieri Ability Test - Non-verbal

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- Online and paper versions
- Group or individual administration
- Several NEW types of items have been developed
- Animated instructional video
- Interactive practice questions
- Minimal verbal directions
- Pre-K, Kindergarten, Grade 1, Grade 2, Grade 3/4, Grade 5/6, Grade 7-9, Grade 10-12

1  


2  


3  


4  


5  


### Nonverbal Pilot Study Results (2019)

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- **SAMPLE**
  - 3,630 That closely matches the US population on key demographics
- **GENDER**
  - No difference between males and females for raw score across all forms
- **RACE/ETHNICITY**
  - No differences among White, Black, & Hispanic for raw score across all forms
- **PARENTAL EDUCATION LEVEL**
  - No differences among five education levels (No high school diploma; High School graduate; Some college/Associate's degree; Bachelor's degree; Graduate/professional degree) for raw score across all forms

# Description of the Quantitative Measure of General Ability



## Naglieri Ability Test - Quantitative

- These items demand analysis of sequences of numbers or relationships among a group of numbers. For example, 1 is to 2 (a difference of 1) as 3 is to ... 4. Alternatively, the items can be solved by simply recognizing that the when analyzed vertically, 1 becomes 3, so 2 should become 4.
- These items test a person's ability to understand relationships and patterns involving numbers, just as understanding relationships among shapes in the NAT-Nonverbal or verbal categories in the NAT-Verbal.

- Online and paper version
- Classroom and individual administration

1	2
3	?

←	4	1	8	5	9	→
	A	B	C	D	E	

Authors: Jack Naglieri & Kim Lansdowne

## Quantitative Pilot Study Results (2019)

- **SAMPLE**
  - 2,841 That closely matches the US population on key demographics
- **GENDER**
  - No difference between males and females for raw score across all forms
- **RACE/ETHNICITY**
  - No differences among White, Black, & Hispanic for raw score across all forms
- **PARENTAL EDUCATION LEVEL**
  - No differences among five education levels (No high school diploma; High School graduate; Some college/Associate's degree; Bachelor's degree; Graduate/professional degree) for raw score across all forms

## Naglieri General Ability Tests Release

- The three tests will be released in 2021 for application using local norms
- Data collection for generation of national reference group will resume as soon as it is possible
- We know we have highly reliable measures that work well across ages

Category	Grade	Reliability
Quantitative	Kindergarten	.89
	Grade 1	.90
	Grade 2	.92
	Grades 3 and 4	.94
	Grades 5 and 6	.94
	Grades 7 - 9	.95
	Grade 10 - 12	.93
	<b>Median</b>	<b>.93</b>
Nonverbal	PreK	.92
	Kindergarten	.87
	Grade 1	.90
	Grade 2	.86
	Grades 3 and 4	.92
	Grades 5 and 6	.93
	Grade 7 - 9	.95
	Grade 10 - 12	.94
	<b>Median</b>	<b>.92</b>
Verbal	K - grade 2	.92
	Grades 3 - 6	.90
	Grades 7 - 12	.89
	<b>Median</b>	<b>.90</b>

## Questions or thoughts ?

## Ideas to Consider

- Introduction
- Measurement of General Ability
- Three New Tests
- How to Identify Gifted Students

## Verbal Tests Discriminate

IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF ILLINOIS, EASTERN DIVISION

DANIEL DINSH and DEANNA MCADDEN, )  
 Plaintiffs, )  
 vs. )  
 BOARD OF EDUCATION FOR ILLINOIS )  
 SCHOOL DISTRICT #46, )  
 Defendants.

On July 11, 2019, Judge Robert Gettleman issued a decision holding that District #46 intentionally discriminated against Hispanic students specific in their gifted programming (placement), and found problems with policies and instruments for students - Hispanic and Black students for SWAS. Judge Gettleman found discrimination regarding (a) tests for screening and for identification, (b) designated cutoff scores for screening and identification, (c) use of both verbal and math scores at arbitrary designated levels for screening and for identification, (d) use of weighted matrix, as well as content and criteria in weighted matrices that favored achievement and traditional measures, (e) too little reliance on a nonverbal test (Naglieri Nonverbal Ability Test) for admission to SWAS, (f) re-testing Hispanic students for middle school gifted program, (g) limiting of testing, (h) use of parental referrals, and (i) use of teacher referrals (see Table 2).

**CogAt Verbal, Quantitative require English**

**Weighted matrix favored achievement and CogAt**

**Too little reliance on NNAT**

The district with 42 only 2% were identified as gifted. Did the District discriminate against Hispanic Students?

## How to Equitably Identify Gifted

- Do **universal screening** with ability tests that do not require knowledge of English
- Use the Verbal, Nonverbal and Quantitative test scores to help ensure that every student had the opportunity to demonstrate their ability.
- These tests will help increase participation of under-served populations if they are used properly...

## Local Norming Procedure for V, NV, & Q

- Obtain scores for **ALL** students (not only referred students) in the grades for which the GT decisions is needed
- Decide how the information obtained for each student is to be evaluated (i.e., average, and or logic) and if it is to be weighted
- Rank order the students' raw scores on the V, NV & Q tests
  - Raw scores can be converted to percentile or standard scores as desired
- Determine a cut-score based on the number of students the GT program can accommodate
- Evaluate the outcome

## Participate in Standardization of New Tests

- MHS is looking for standardization sites to finalize the development of these three tests.
- Raw score data (like normed standard scores) could be used as part of the process to identify students for gifted and talented educational programs
- Contact: **Sydney Scanlan, Data Collection Coordinator at MHS:**  
sydney.scanlan@mhs.com  
**800-456-3003 ext. 447**

**Help Shape the Future of Fair and Equitable Gifted Identification**



**Multi-Health Systems (MHS)** is developing an exciting new gifted battery for schools. Under the direction of our Multiple Departments, we are looking for participants to help shape this new assessment and its impact on the identification of giftedness.

**Why Participate?**  
In addition to receiving compensation for your participation, you will also receive a comprehensive report on the battery. You will have the opportunity to contribute feedback which will be used to refine the final product and help shape the needs of schools and districts who will use the battery.

**Who Can Participate and How?**  
Schools are invited to participate in the standardization process for the development of the V, NV, & Q tests. Schools are invited to participate in the standardization process for the development of the V, NV, & Q tests. Schools are invited to participate in the standardization process for the development of the V, NV, & Q tests.

**When?**  
The standardization is for early fall 2016.

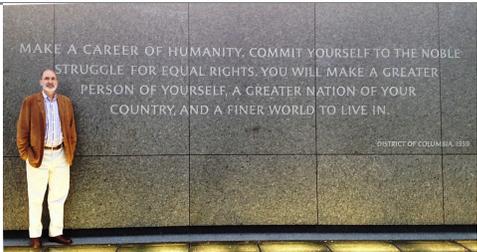
**How Do I Sign Up?**  
Sign up for the standardization process by contacting Sydney Scanlan, Data Collection Coordinator at MHS, at [sydney.scanlan@mhs.com](mailto:sydney.scanlan@mhs.com) or 1-800-456-3003 ext. 447.

**Who is MHS?**  
MHS is a leading provider of specially designed books and materials for students with learning differences.




Questions or thoughts ?

Gifted Identification is a Social Justice Issue



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