

By:Velda SchneiderNdona J Kanza HansenSuzy Ries



Please take out a piece of paper, number it 1-10 and answer the following questions.

Your ability to answer the questions correctly will determine your annual salary next school year.



Your homeboy just told you he purchased a grill for abunches of guap. How would you respond?

- a. Ask if it was a mamom.
- b. Ask how expansive it was.
- c. Ask him to sperlunk.
 - d. Take a ride in his rut.



Your professor tells you to agitate the gravel or cut the gas. What should you do?

- a. Tell him you're earthbound.
- b. Share your bread with him.
- c. Ask him if he's jacketed.
 - d. Shut your trap. You're not an actor.

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Question #3

We went to the north 40 to see if it was tall enough to use the Hydra-Swing next week. Based on this sentence, what is a Hydra-Swing?

- a) a Hydra-Swing is a swinging mechanism used to lift up injured heifers or cows that become partially paralyzed due to difficult births or other complications.
- b) a Hydra-Swing is a hay cutting machine that you pull behind the tractor to cut and condition hay for bailing.
- c) a Hydra-Swing is used to spray chemicals in a tall alfalfa field to prepare it for cutting.
- d) a Hydra-Swing is a water mechanism used to grow taller crops or water crops during a dry growth season.



We're going to go down to see the patient in room 113 to do a quick suck and a look. What does this sentence mean?

- a) We will perform a procedure to suck the fluid out of an injured knee and do a scope treatment on it.
- b) We will perform an extraction of fluid from a patient's bladder and test it for infection.
- c) We will perform a bronchoscopy and take the secretions out of a patient's lungs and look to see if everything is okay.
- d) We will suck scar tissue out of a previous injury and look to make sure it is not infected and the scar tissue has been cleared away.



What number comes next in the sequence?

one, two, three, _____?



What number comes next in the following sequence?

12 5 6 9 10 ____



A bubbler is:

- a bubble machine
- a water fountain
- a person that talks a lot
- a person that makes bubbles



Where are you most likely to find Sundrop?

- In Wisconsin
- In Florida
- In a movie theater
- None of the above



The term AVHRR stands for:

- Artero-ventricular hyper reticular retention
- Advanced very high resolution radiometer
- All vehicle hazard road runner
- Nothing; Velda made it up

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Question #10

In the <u>Sisterhood of the Traveling Pants</u>, the story revolves around:

- Tibby
- Carmen
- Lena
- Bridget
- All of the above



Essential Questions

- Is there test bias against minorities in standardized testing?
- How do you identify test bias against minorities ?
- What are the effects of test bias against minorities ?
- How do you change bias against minorities in standardized testing?



Three Undesirable Characteristics in Testing:

 Stereotyping is consistent representation of a given group in a particular light – which may be offensive to members of that group.

Stereotyping does not lead to differential performance, except in extreme cases.



- 2. **Bias** is defined as the presence of some characteristic of an item that results in differential performance for two individuals of the same ability but from different ethnic, sex, cultural or religious groups.
- 3. **Offensiveness** can obstruct the purpose of a test item, may produce negative feelings and affect attitudes toward testing thus lowering test scores.



History of Testing Bias:

- In the early 1900's IQ testing results were used as a basis to sterilize those with marginal test results.
- Test results were also used in the 1920's to rank racial and ethnic groups and rig immigration quotas.
- From the results of verbally based testing, deaf children were thought incapable of mental processing and institutionalized through 1967.





Women were discriminated against on scholarship competitions based on biased exam scores.



- IQ test results were used to label individuals: moron, idiot, imbecile.
- School districts use tests to track and place students in grades K-12 – which perpetuates segregation in the classroom.
- Teaching to the test has damaging effects on curriculum and instruction, particularly minorities and low income children.
 Zappardino, 1995



- The use of standardized testing has produced a decrease in the number of African American educators.
- Researchers have used IQ tests to link genetic predisposition to criminality.



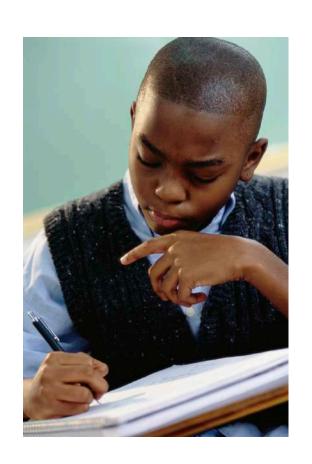


Test Bias Reform

■ Began in the 1970's and early 1980's when test publishers incorporated controls for bias after testing results showed massive gaps between racial groups, social strata and regions of the country.

Six groups focused on during bias review:

- Asian/Pacific Islanders
- Black Americans
- Hispanic Americans
- Individuals with Disabilities
- Native Americans
- Women



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When you think of test bias, think of content validity.





Content Validity

"Content validity is the extent to which a test measures only what it says it measures."





Types of Bias:

- Gender Bias
- Cultural Bias
- Regional Bias
- > Ethnic/Racial Bias
- Language Bias
- Socio Economic Status (SES) Bias
- Special Needs Bias





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Gender bias



Gender bias exists

- when males or females are depicted in a stereotypical manner.
- When males and females with the same skills and knowledge obtain different scores on a test.¹



Cultural Bias

- A test is culturally biased when it makes assumptions about what is "common knowledge.1"
- Examples: cultural norms and conventions, literary knowledge, conventions of language² etc.
- McGinley, S. (2002).
- Del Rosario B. (1998)



Regional Bias

- A test has regional bias when people are penalized because of the use of regional names or dialects.
- Examples: sundrop, pop, bubbler, pies for pizzas (pizza pie) in NY, etc.



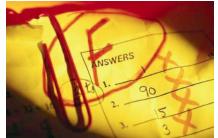


Ethnic and Racial Biases

Ethnic Bias or Racial Bias occurs

- When members of a group are portrayed in a stereotypical manner.
- When members of such groups obtain different scores than members of another group – with the same
 - skills and knowledge¹.







Socio-Economic Bias

- Socio-economic bias occurs in tests when students are penalized based on their Socio-economic status¹:
 - the isolated, rural environment, the restrictive poverty of many families, and cultural ties with a tribe or other group deny many students important knowledge of the

Popham, 2006 Brescia & Fortune, 1988

outside world².

1.



Language Bias

Language bias in tests occurs

When second language learners are penalized because of their lack of



knowledge of the English Language.

For example, by their inability to read the questions accurately, or to give appropriate verbal responses.

Brescia & Fortune, 1988



Special Needs Bias

According to Popham, a test is biased if it unfairly penalizes a group of students so that their performance is less than that of another group of students with the same achievement level with respect to the knowledge or skill being tested.

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However, is it fair to test students using test items that we know do not match their ability levels?





What are the effects?

Emotional effects

- ☐ Students struggle with testing and its results and they question their own capabilities to learn. They lose confidence and the ability to take risks and become embarrassed and feel the need to "save face".
- ☐ For children who haven't
- ☐ grasped English testing becomes a painful and humiliating experience.





Effects continued

We are creating more achievement gaps between students, rather than helping them because we are testing groups unfairly.



- disabled students not given enough time to test.
 - □ ELL/ESL students have limited reading skills and can't even read the test and get no assistance.
 - Many students with special needs don't have fair achievement measures.



How do you identify bias?

- Content Bias
 - -fair for all examinees
- Language Bias
 - -Is the item free of group specific language, vocabulary, or reference pronouns
- Item Structure and Format Bias
 - -Are there any flaws in the items to which members of DSI are differentially sensitive?
- Stereotyping of Minorities
 - -Avoid material that is controversial, inflammatory, demeaning or offensive to members of DSI (designated subgroup of interest).

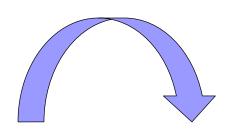




- Is the test item fair for all examinees and free of annoying stereotypes?
- Are both sex groups recognized fairly?
- Is there a balance (across items in the test) of proper names? ethnic groups? activities for all groups (active, passive, neutral)? roles for both sexes (traditional, nontraditional, neutral)? adult role models (worker, parent)? character development (major, minor, neutral)? settings (suburban, urban, rural)?
- Will all examinees have equal opportunity to respond?
- and the list goes on.....



How do you change it?



- More qualified people must check and construct tests that are not biased. (This will cost money!)
- The federal and state governments must be willing to spend money to better understand tests and how to identify bias.
- We have a shortage of psychometricians-specialists who do the statistical work in test making and interpretations and we need more of these people trained to keep up with the demands of state testing by NCLB to ensure no test bias is occurring.
- Time, money, and qualified people.

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Discussion Question:

■What evidence of test bias against minorities

do you





Let's see how you did on our minority biased test....

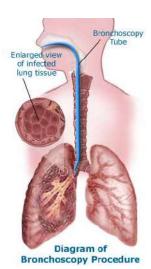
- 1. Your homeboy just told you he purchased a grill (fancy dental work) for abunches (a lot) of guap (money). How would you respond?
- a. Ask if it was a mamom (ill gotten gain).
- b. Ask how expansive (expensive) it was.
- c. Ask him to sperlunk (cuddle).
 - d. Take a ride in his rut (car).



- 2. Your professor tells you to cut the gas (be quiet) or agitate the gravel (leave). What should you do?
- a. Tell him you're earthbound (reliable).
- b. Share your bread (money) with him.
- c. Ask him if he's jacketed (going steady).
 - d. Shut your trap (stop talking). You're not an actor (show off).
- 3. We went to the north 40 to see if it was tall enough to use the Hydra-Swing next week. Based on this sentence, what is a Hydra-Swing?
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 - d. We will suck scar tissue out of a previous injury and look to make sure it is not infected and the scar tissue has been cleared away



- 5. What number comes next in the sequence, one, two, three, _many_?
- 6. What number comes next in the following sequence:
- 12 5 6 9 10 <u>13</u>
- 7. A bubbler is:
- a. a bubble machine
 - b. a water fountain
 - c. a person that talks a lot
 - d. a person that makes bubbles





- 8. Where are you most likely to find Sundrop?
 - a. In Wisconsin
 - b. In Florida
 - c. In a movie theater
 - d. None of the above



- a. Artero-ventricular hyper reticular retention
- b. Advanced very high resolution radiometer
- c. All vehicle hazard road runner
- d. Nothing; Velda made it up



- a. Tibby
- b. Carmen
- c. Lena
- d. Bridget
- e. All of the above





References



- Aberback, B. (2005). Trying to close white minority learning gap. Retrieved January 26, from EBSCO MegaFile (accession # 2W61681757186).
- Axman Childs, R. (1990). Gender bias and fairness. *Practical Assessment, Research & Evaluation*, 2 (3). Retrieved April 18, 2007 from http://PAREonline.net/getvn.asp?v=2&n=3
- Brescia, W. & Fortune, J.C. (1988, March). Standardized testing of American Indian students. Retrieved Fall 2006, from ERIC (ED # 296813).
- Camara, W. J. & Smith, A. E. (1999). Group differences in standardized testing and social stratification. Retrieved January 29, 2007 from http://www.collegeexplorer.com/research/pdf/rr9905_3916.pdf
- Castenell, Jr., L.A.& Castenell, M.E. (1998). Testing the test. Norm –referenced testing and low-income blacks. Retrieved February 17, 2007 from EBSCO MegaFile
- Charter high schools: Closing the achievement gap. Innovations in education.(2006). *U.S. Department of Education*. Retrieved February 7, 2007 from ERIC.
- Choi, K. & Kim, J. (7/2006). Closing the gap: modeling within-school variance heterogeneity in school effect studies. CSE Report 689 *National Center for Research on Evaluation, Standards, and Student Testing (CRESST)*. Retrieved February 7, 2007 from ERIC.
- Del Rosario Basterra, (1998, Winter-1999, Spring). Using standardized tests to make high-stake decisions on English-language learners: dilemmas and critical issues. Retrieved April 18, 2007 from www.maec.org.

- Dittmer, J. (2004) Assessing school assessment: A case study of the geographic implications of the A+ plan. *Southeastern Geographer*. Chapel Hill: Nov. 2004, Vol. 44, Iss. 2; pg. 170, 16 pgs.
- FairTest Examiner (1999). Court rules for high-stakes testing. Winter 1999. Retrieved February 3, 2007 from http://www.fairtest.org/examarts/winter00/Court Rules For High-Stakes Testing.html
- Geller, J. M., & Wernie, M. (2006). Latino students in our public schools: A closer look. *Center for Rural Policy and Development*. Retrieved February 7, 2007 from ERIC.
- Hambleton, R. K. & Rodgers, H. J. (2004). Developing an item bias review form. *University of Massachusetts at Amherst*. Retrieved January 26, 2007 from Clearinghouse on Assessment and Evaluation. http://ericae.net/ft/tamu/biaspub2.htm Jorgensen, M. A. (2005). Test bias or real differences? *T.H.E. Journal*, September 1, 2005. Retrieved April 20, 2007 from http://thejournal.com/articles/17401
- Lee, J. (2006). Tracking achievement gaps and assessing the impact of NCLB on the gaps: An in-depth look into national and state reading and math outcome trends. *Civil Rights Project at Harvard University (The)*. Retrieved February 7, 2007 from ERIC.
- McGinley, S. (2002, December). Standardized testing and cultural bias. Retrieved April 18, 2007 from http://www.fhsu.edu/~rbscott/news/dec/story15.htm
- Persell, C. H. (2000). Dilemmas of achievement. *Society, 37* (5), 13-18. Retrieved January 26, 2007 from EBSCO MegaFile (ISSN # 0147-2011).
- Popham, W.J. (2006). Assessment for educational leaders. Boston, MA: Pearson, 6, 119-133.
- Rosengarten, D. (2002). Standing up to standardized tests. *Dollars and Sense*, 232, 6-8. Retrieved January 26, 2007 from ProQuest database.

- Ross, S.M., Smith, L.J., & Casey, J.P. (1997). Preventing early school failure: Impact of success for all on standardized test outcomes, minority group performance, and school effectiveness. *Journal of Education for Students Placed at Risk*, 2 (1), 29, 25p. Retrieved January 26, 2007, from EBSCO MegaFile (ISSN # 1082-4669).
- Schellenberg, S. J. (2004). Test bias or cultural bias: Have we really learned anything? *National Association of Test Directors 2004 Symposia*. Retrieved February 3, 2007 from http://www.natd.org/2004Proceedings.pdf
- Turley, E. (2006). Textural perceptions of school time and assessment. *Phi Delta Kappan*. 87. 438-443. Retrieved April 25, 2007 from ProQuest database.
- William, T. S. (1983). Some issues in the standardized testing of minority students. *Journal of Education 165* (2), 192, 18 p. Retrieved from EBSCO MegaFile (ISSN # 002-0574).
- Zappardino, P. H. (1995). FairTest: Charting a course for testing reform. *The Clearing House Research Library, 68,* 248-252. Retrieved January 26 from ProQuest database.