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- 1  [Sound reasoning requires statistical understanding.](#)  
 Bower, Bruce  
 Science News 11/22/2008, Vol. 174 Issue 11, p32-32  
 2008  
 In this interview the cognitive psychologist Gerd Gigerenzer discusses the relationship between statistical literacy and decision making. Gigerenzer discusses risk assessment heuristics that he has developed with the Harding Center for Risk Literacy in Berlin, Germany. The tendency for people to follow legal defaults rather than taking deliberate action in cases such as organ donation is presented as an aspect of cognitive psychology that ...  
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- 2  [Teaching Statistical Concepts, Fundamentals and Modelling.](#)  
 O'Brien, Timothy E. 1 tobrie1@luc.edu  
 Teaching Statistics Fall2008, Vol. 30 Issue 3, p81-85  
 2008  
 This article considers some issues in designing a course focusing on statistical concepts rather than memorizing formulae. [ABSTRACT FROM AUTHOR] Copyright of Teaching Statistics is the property of Blackwell Publishing Limited and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for ...  
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- 3  [The Evolution of Pearson's Correlation Coefficient.](#)  
 Kader, Gary D. 1  
 Mathematics Teacher Nov2008, Vol. 102 Issue 4, p292-299  
 2008  
 The article describes an activity that aids an intuitive development of the formula for Pearson's correlation coefficient and its interpretation. By investigating scatter plots, teachers may allow students to develop an intermediate measure of association called the quadrant count ratio (QCR), investigate properties of the QCR, and establish Pearson's correlation coefficient to address some of the QCR's disadvantages. ...  
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- 4  [One-sided tolerance limits for unbalanced one-way random effects models: a generalized Mee and Owen procedure.](#)  
 Romero-Villafranca, R. 1 rromero@eio.upv.es  
 Journal of Statistical Computation & Simulation Dec2008, Vol. 78 Issue 12, p1213-1225  
 2008  
 This article proposes a new procedure for obtaining one-sided tolerance limits in unbalanced random effects models. The procedure is a generalization of that proposed by Mee and Owen for the balanced situation, and can be easily implemented, because it only needs a non-central-t table. Two simulation studies are carried out to assess the performance of the new procedure and to compare it with one of the other procedures laid out in ...  
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- 5  [Perspective: The Role of Numeracy in Health Care.](#)  
 Rothman, Russell L. 1  
 Journal of Health Communication Sep2008, Vol. 13 Issue 6, p583-595

### Topics

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- [Article reviews](#) (6)
- [Teaching Statistics](#) (5)
- [Statistical illiteracy](#) (3)
- [Primary School](#) (3)



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- [2007](#) (10)
- [2006](#) (10)
- [2005](#) (2)

### Authors

- [Goodall, Gerald](#) (2)
- [Other](#) (27)

### Journal Titles

- [Teaching Statistics](#) (8)
- [American Statistician](#) (3)
- [Psychological Science ...](#) (2)
- [Other](#) (16)

2008

Numeracy, the "ability to understand and use numbers in daily life" is an important but understudied component of literacy. Numeracy-related tasks are common in health care and include understanding nutrition information, interpreting blood sugar readings and other clinical data, adjusting medications, and understanding probability in risk communication. While literacy and numeracy are strongly correlated, we have identified many patients ...

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6

[Children's early numeracy in England, Finland and People's Republic of China.](#)

Aunio, Pirjo 1 pirjo.aunio@nmi.fi

International Journal of Early Years Education Oct2008, Vol. 16 Issue 3, p203-221  
2008

This research investigated the similarities and differences between countries in young children's early numeracy skills related to age, culture, and gender. The participants were five-year-old children from Beijing (People's Republic of China), England, and Finland. The rationale for the cross-cultural comparison originates from research results with older children showing that Asian children outperform children from America or ...

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7

[NUMERACY TEST IS UNREALISTIC FOR THE CLINICAL ENVIRONMENT.](#)

Coben, Diana

Nursing Standard 2/6/2008, Vol. 22 Issue 22, p33-33  
2008

A letter to the editor is presented in response to the article concerning the unrealistic nature of numeracy tests for nurses in the clinical environment that was published in the January 23, 2008 issue.

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8

[Statistical Literacy: A Prerequisite for Evidence-Based Medicine.](#)

Monahan, John 1

Psychological Science in the Public Interest Nov2007, Vol. 8 Issue 2, pi-ii  
2007

The article presents the author's view on the prevalence of statistical illiteracy in healthcare centers, consultation rooms, and courtrooms. He argues that doctors and patients as well as judges and juries have less knowledge in the interpretation of medical frequencies that hampers the trade-off between benefit and costs. He comments on the importance of health risk communication and evidence-based medicine. Furthermore, he mentions ...

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9

[Statistical Literacy for Readers of Pediatrics: A Moving Target.](#)

Hellems, Martha A. 1 mab4c@virginia.edu

Pediatrics Jun2007, Vol. 119 Issue 6, p1083-1088  
2007

OBJECTIVE. Pediatric residents are expected to study research design and statistical methods to enable them to critically appraise the pediatric literature and apply the findings to patient care. However, it is not clear how best to teach these skills or even which statistical concepts are most important. An earlier study demonstrated that the statistical complexity of articles published in Pediatrics increased from 1952 to 1982. ...



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10

[IASE Matters.](#)

Teaching Statistics Fall2007, Vol. 29 Issue 3, pi-iv  
2007

The article presents information on competitions, conferences, and educational programs related to statistics. The International Statistical Literacy Program of the International Association for Statistical Education will conduct a school competition in Brazil in September-December 2007. The first meeting of the United States Conference on the Teaching of Statistics which was held in May 2007 in Ohio, brought together several statistics ...

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11

[Responsive curriculum design in a statistics service unit.](#)

Coutis, P. F. 1 coutip@hillsggrammar.nsw.edu.au

International Journal of Mathematical Education in Science & Technology 2007, Vol. 38 Issue 4, p501-515  
2007

Many students have difficulty when first exposed to statistical concepts. In the case of service teaching arrangements where the focus is more on the statistical literacy needs of the profession and concepts need to be developed in short time frames the challenges are even more imposing, particularly if cohorts contain substantial numbers of non-English speaking background (NESB) students. In this paper the results of a responsive ...


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12 

Helping Doctors and Patients Make Sense of Health Statistics.

Gigerenzer, Gerd 1,2 gigerenzer@mpib-berlin.mpg.de  
Psychological Science in the Public Interest Nov2007, Vol. 8 Issue 2, p53-96  
2007

Many doctors, patients, journalists, and politicians alike do not understand what health statistics mean or draw wrong conclusions without noticing. Collective statistical illiteracy refers to the widespread inability to understand the meaning of numbers. For instance, many citizens are unaware that higher survival rates with cancer screening do not imply longer life, or that the statement that mammography screening reduces the risk of ...

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13 

A First Course in Statistical Methods.

Marasinghe, Mervyn 1  
American Statistician Feb2007, Vol. 61 Issue 1, p95-97  
2007

The article reviews the book "A First Course in Statistical Methods," by R. Lyman Ott and Michael T. Longnecker.

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14 

Seeing Through Statistics (3rd ed.)/Mind on Statistics (3rd ed.).

Cavanaugh, Joseph 1  
American Statistician Feb2007, Vol. 61 Issue 1, p95-95  
2007

The article reviews two books including "Seeing Through Statistics," 3rd ed., by Jessica M. Utts, "Mind on Statistics," 3rd ed., by Jessica M. Utts and Robert F. Heckard.


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15 

EDITORIAL.

Goodall, Gerald  
Teaching Statistics Summer2007, Vol. 29 Issue 2, p33-33  
2007

The article discusses various reports published within the issue, including "Estimating Mortality in War-Time Iraq: A Controversial Survey with Important Lessons for Students," by Fernando De Maio and "Teaching Statistics-Despite Its Applications," by Jim Ridgway and colleagues.

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16 

Nature Calls.

Young, Susan  
Times Educational Supplement 1/26/2007 Issue 4721, special section p44-45  
2007

The article discusses the study of birds as a means to students' learning about science, becoming literate, and numerate. The Big Schools Birdwatch is discussed as a curriculum inclusion, and the Tuckwood First School in Norwich, England is presented as an exemplary user. The program is sponsored by the Royal Society for the Protection of Birds.


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17 

Finding inquiry in discourses of audit and reform in primary schools.

Williams, Julian 1 julian.williams@manchester.ac.uk  
International Journal of Educational Research Feb2007, Vol. 46 Issue 1/2, p57-67  
2007

Abstract: In this paper we examine the discourses of Primary school numeracy coordinators responsible for auditing, monitoring and supporting their colleagues in relation to the introduction and embedding of the National Numeracy Strategy (NNS) in the UK. Cultural-Historical Activity Theory (CHAT) focuses our analysis on the contradictory coupling of school, NNS and audit systems with our R&D project through boundary objects and crossers. ...

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18 

Statistical Literacy at School: Growth and Goals.

Coupland, Mary  
Australian Mathematics Teacher Oct2006, Vol. 62 Issue 4, p24-25

2006

The article reviews the book "Statistical Literacy at School: Growth and Goals," by Jane M. Watson.

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19

[Statistical literacy is the essential skill for educational managers.](#)

Schagen, Ian 1

Education Journal Sep2006 Issue 98, p21-21

2006

The article reflects on the author's view regarding the debates concerning the skills needed by young people in the 21st century. The author proposed that one of the needed skills is statistical literacy not only for the products of the educational system but for those who are involved in running it. According to the author, statistical literacy basic concepts like uncertainty, sampling and many others.

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20

[The Relationship between Poor Numerical Abilities and Subsequent Difficulty in Accumulating Statistical Knowledge.](#)

Gnaldi, Michaela 1 [michaela.gnaldi@miur.it](mailto:michaela.gnaldi@miur.it)

Teaching Statistics Summer2006, Vol. 28 Issue 2, p49-53

2006

Mathematics lecturers have long expressed concern about their students' poor mathematical background and the effect this has on performance in first mathematics courses at university level. This article explores a similar concern about students' numeracy in a statistics course for psychologists. [ABSTRACT FROM AUTHOR] Copyright of Teaching Statistics is the property of Blackwell Publishing Limited and its content may not be copied ...

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