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- 1  [MEDIA clips.](#)  
Mathematics Teacher Nov2008, Vol. 102 Issue 4, p272-275  
2008  
A quiz related to authentic applications of quantitative reasoning based on print or electronic media.  
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- 2  [The Luxury of Teaching Science.](#)  
Bruning, David 1 david.bruning@uwp.edu  
Mercury Apr/May2008, Vol. 37 Issue 2, p12-12  
2008  
The author reflects on continuing to offer a course rich in quantitative reasoning and high standards while running low enrollments that risk criticism from the university on student-contact hours. He mentioned the restructuring of the general education (gen ed) at a Midwestern university that required spreading the courses to three disciplines instead of two. While astronomy is listed under Physics, advisors could not recommend it because ...  
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- 3  [Sex differences in latent cognitive abilities ages 6 to 59: Evidence from the Woodcock-Johnson III tests of cognitive abilities.](#)  
Keith, Timothy Z. tim.keith@mail.utexas.edu  
Intelligence Nov2008, Vol. 36 Issue 6, p502-525  
2008  
Abstract: Sex differences in the latent general and broad cognitive abilities underlying the Woodcock-Johnson Tests of Cognitive Abilities were investigated for children, youth, and adults ages 6 through 59. A developmental, multiple indicator-multiple cause, structural equation model was used to investigate sex differences in latent cognitive abilities as well as developmental changes in these differences across the 6 to 59 age span. ...  
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- 4  [Using psychometric technology in educational assessment: The case of a schema-based isomorphic approach to the automatic generation of quantitative reasoning items.](#)  
Arendasy, Martin martin.arendasy@univie.ac.at  
Learning & Individual Differences Sep2007, Vol. 17 Issue 4, p366-383  
2007  
Abstract: This article deals with the investigation of the psychometric quality and constructs validity of algebra word problems generated by means of a schema-based version of the automatic min-max approach. Based on review of the research literature in algebra word problem solving and automatic item generation this new approach is introduced as a theory-based top-down method of automatic item generation featuring a quality control ...  
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- 5  [The Influence of Reasoning with Emergent Quantities on Students' Generalizations.](#)  
Ellis, Amy B. 1  
Cognition & Instruction 2007, Vol. 25 Issue 4, p439-478  
2007  
This paper reports the mathematical generalizations of two groups of algebra students, one which focused primarily on quantitative relationships, and one which focused primarily on number patterns disconnected from quantities. Results indicate

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### Authors

- [TAMAR LEWIN](#) (2)
- [Cibes, Margaret](#) (2)
- [Other](#) (26)

### Journal Titles

- [Mathematics Teacher](#) (8)
- [Chronicle of Higher Ed...](#) (2)
- [New York Times](#) (2)
- [British Journal of Edu...](#) (2)
- [Other](#) (16)

that instruction encouraging a focus on number patterns supported generalizations about patterns, procedures, and rules, while instruction encouraging a focus on quantities supported generalizations ...

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6 

**STABILITY OF SCORES FOR THE SLOSSON FULL-RANGE INTELLIGENCE TEST.**

Williams Jr., Thomas O. 1 thwillil@vt.edu  
Psychological Reports Aug2007, Vol. 101 Issue 1, p135-140  
2007

The test-retest stability of the Slosson Full-Range Intelligence Test by Algozzine, Eaves, Mann, and Vance was investigated with test scores from a sample of 103 students. With a mean interval of 13.7 mo. and different examiners for each of the two test administrations, the test-retest reliability coefficients for the Full-Range IQ, Verbal Reasoning, Abstract Reasoning, Quantitative Reasoning, and Memory were 93, .85, .80, .80, and . ...

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7 

**New Major at William Jewell College Redefines Liberal Arts.**

Winslow, Rick 1  
Student Affairs Leader 6/1/2007, Vol. 35 Issue 11, p1-2  
2007

The article focuses on the new academic major, Applied Critical Thought and Inquiry, at William Jewell College in Missouri. This major consists of a set of intentional and progressive courses that require every student to study concepts and disciplines from multiple fields and sources. It was designed by the college's faculty to lead to specific outcomes, including critical thinking, problem solving and quantitative reasoning.



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8 

**MEDIA clips.**

Cibes, Margaret 1 cibes@hartford.edu  
Mathematics Teacher Mar2007, Vol. 100 Issue 7, p490-491  
2007

The article presents reprint on several media clips that provides applications of quantitative reasoning. "Commemorate Caesar: Take a Deep Breath!" states that there is one or more molecules present in every breath of air that people take from Caesar's last breath. "Is Your Password Safe? Think Again" explains that people has to use eight-character password with at least one number to protect the files. "Ask Tom Why" presents the ...



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9 

**MEDIA.CLIPS SOLUTIONS.**

Jamski, William 1 wjamski@ius.edu  
Mathematics Teacher Aug2007, Vol. 101 Issue 1, p14-15  
2007

The article offers answers to several mathematical questions relating court malpractice. The section aims to offers readers contemporary, authentic applications of quantitative reasoning that are based on print or electronic media. It answers the following chained questions: determining the maximum attorney's fee for each of the hypothetical plaintiff awards, both in dollars and as a percent of the total award; and if an attorney ...

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10 

**Collaborative philosophical enquiry for school children: Cognitive effects at 10-12 years.**

Topping, K. J. 1 k.j.topping@dundee.ac.uk  
British Journal of Educational Psychology Jun2007, Vol. 77 Issue 2, p271-288  
2007

Background. Debates about the modifiability of cognitive ability have been largely resolved by reports of successful 'thinking skills' interventions. However, such interventions are very diverse and generalization of effects relatively little explored. Aims. This study investigated whether a thinking skills intervention involving collaborative interactive dialogue could lead not only to gains in measured verbal cognitive ability ...

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11 

**Modeling of concurrent web sessions with bounded inconsistency in shared data.**

Totok, Alexander totok@cs.nyu.edu  
Journal of Parallel & Distributed Computing Jul2007, Vol. 67 Issue 7, p830-847  
2007

Abstract: Client interactions with web-accessible network services are organized into sessions involving requests that read and write shared application data. When executed concurrently, web sessions may invalidate each other's data. Allowing the session with invalid data to progress might lead to financial penalties for the service provider, while blocking the session's progress will result in user dissatisfaction. ...

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12 

Intuitive interference in quantitative reasoning.

Stavy, Ruth 1 ruth@post.tau.ac.il  
Brain Research Feb2006, Vol. 1073-1074, p383-388  
2006

Abstract: It is well known that surface features of a task can queue multiple reasoning strategies. Interference or conflict among the strategies is signaled by increasing reaction times and error rates. To determine the neural basis of this interference, we studied 14 volunteers using event-related fMRI, as they compared the perimeters of geometrical shapes in congruent (where the shapes' perimeter changed in the same direction ...

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13 

WHAT ARE YOU THINKING? POSTSECONDARY STUDENT THINK-ALOUDS OF SCIENTIFIC AND QUANTITATIVE REASONING ITEMS.

Thek, Amy D.  
JGE: The Journal of General Education Jan2006, Vol. 55 Issue 1, p17-39  
2006

The article focuses on the ways to evaluate student learning. Student assessment is the chief element of program evaluation. Multiple-choice tests have been noted as the common evaluative measures used by the teachers to evaluate the scientific and quantitative reasoning of the students. The authors stressed the application of "think-alouds" scheme to understand individual interpretation of items. It was noted that the concept can aid in ...


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14 

No Squirrel Startling.

Mathematics Teacher Apr2006, Vol. 99 Issue 8, p588-589  
2006

The article provides a sample mathematical application of quantitative reasoning based on a report entitled "No Squirrel Startling," published in the December 31, 2004 issue of the newspaper "The Toronto Star."


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15 

MEDIA CLIPS solutions.

Mathematics Teacher Apr2006, Vol. 99 Issue 8, p590-590  
2006

The article provides solutions to a sample mathematical application of quantitative reasoning based on a report entitled "No Squirrel Startling," published in the December 31, 2004 issue of the newspaper "The Toronto Star."

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16 

Back to the future: education for systems-level biologists.

Wingreen, Ned 1  
Nature Reviews Molecular Cell Biology Nov2006, Vol. 7 Issue 11, p829-832  
2006

We describe a graduate course in quantitative biology that is based on original path-breaking papers in diverse areas of biology; each of these papers depends on quantitative reasoning and theory as well as experiment. Close reading and discussion of these papers allows students with backgrounds in physics, computational sciences or biology to learn essential ideas and to communicate in the languages of disciplines other than their own. ...

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17 

Testing Service Delays Rollout Of Revamped Graduate Exam.

TAMAR LEWIN  
New York Times 2/22/2006, p11  
2006

The Educational Testing Service, the maker of the Graduate Record Exam, is delaying its rollout of a revamped test until the fall of 2007. The revised exam was supposed to go into effect in October. The overhaul is to be the biggest in the test's history. Although the exam will still include sections on verbal reasoning, quantitative reasoning and analytical writing, every section is being revised, and the test lengthened to about four ...

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18 

Evidence based diagnosis: does the language reflect the theory?

Bianchi, Matt T. 1 mtbianchi@partners.org  
BMJ: British Medical Journal 8/26/2006, Vol. 333 Issue 7565, p442-445  
2006

Although interest in evidence based medicine has increased in recent years, and it is taught in most medical schools, evidence based strategies have been adopted inconsistently into routine care. One aspect of evidence based medicine involves understanding the limitations of inherently imperfect diagnostic tests. Many trainees appreciate the concepts of sensitivity and specificity and learn how to combine the "art" of the history and ...

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19 

Do the Write Thing.

Burk, Adrienne L. 1

New Directions for Adult & Continuing Education Spring2006 Issue 109, p79-89  
2006

The article discusses the writing, quantitative reasoning, and breadth (WQB) program at Simon Fraser University and its applications to transformative learning. The WQB course teaches the student to utilize writing to demonstrate correlation of ideas. To achieve this, students are given opportunities to use writing as a means of learning through incremental assignments and activities. Also, writing is used as a method of instruction. ...

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20 

MEDIA clips.

Meyer III, Julien H. meyerj@brynmawrschool.org

Mathematics Teacher Dec2006/Jan2007, Vol. 100 Issue 5, p338-342  
2006

The article "Media Clips" presents applications of quantitative reasoning that are based on print or electronic media clips. It uses a diagram of artificial tree, taken from the catalog Lowe's Christmas 2003 by professor Julien H. Meyer III, and Bill Amend's cartoon "FoxTrot" by Charles W. Mitchell Jr. Answers and solutions to problems asked about the clips are presented. It encourages submissions that include questions, as well as ...

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- 21  [Urban Success: A Multidimensional Mathematics Approach with Equitable Outcomes.](#)  
Boaler, Jo 1  
Phi Delta Kappan Jan2006, Vol. 87 Issue 5, p364-369  
2006  
The article focuses on the academic achievement of students in the Railside High School's mathematics program, in California. Students at Railside performed better in mathematics and had less of an educational achievement gap than students at other urban high schools. The mathematics program at Railside provided students with quantitative reasoning capabilities. Students worked together on complex conceptual problems. ...


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- 22  [A Confirmatory Analysis of the WAIS-III Using Data from Standardization and Independent Samples.](#)  
Kane, Harrison D. 1 hdk15@colled.msstate.edu  
Counseling & Clinical Psychology Journal Sep2006, Vol. 3 Issue 3, p113-136  
2006  
The Wechsler Adult Intelligence Scale, Third Edition (WAIS-III) is the most widely used individually administered measure of adult intelligence. Using confirmatory factor analysis, the present study investigates the structural fidelity of the WAIS-III using data from standardization and an independent sample. Findings support five cognitive factors (i.e., Verbal Comprehension, Processing Speed, Perceptual Organization, Working Memory, and ...


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- 23  [Sex differences in Cognitive Abilities Test scores: A UK national picture.](#)  
Strand, Steve 1 steve.strand@warwick.ac.uk  
British Journal of Educational Psychology Sep2006, Vol. 76 Issue 3, p463-480  
2006  
Background and aims. There is uncertainty about the extent or even existence of sex differences in the mean and variability of reasoning test scores ( Jensen, 1998; Lynn, 1994, 1998; Mackintosh, 1996). This paper analyses the Cognitive Abilities Test (CAT) scores of a large and representative sample of UK pupils to determine the extent of any sex differences. Sample. A nationally representative UK sample of over 320,000 school pupils aged ...






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- 24  [Overhauled GRE Will Have New Questions and Take Longer to Complete.](#)  
Farrell, Elizabeth F.  
Chronicle of Higher Education 10/21/2005, Vol. 52 Issue 9, pA46-A46  
2005  
The article focuses on makeover of the Graduate Record Examination (GRE). After four years of research, officials of the Educational Testing Service say that they have nearly finished the most significant overhaul of the GRE in its 55-year history. Each of the computer-based test's sections, verbal reasoning, analytical writing and quantitative reasoning, will have different types of questions and a new format. The changes are intended ...

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- 25  [Putting Liberal Education on the Radar Screen.](#)  
Schneider, Carol Geary 1

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-  [Chronicle of Higher Ed...](#) (2)
-  [New York Times](#) (2)
-  [British Journal of Edu...](#) (2)
-  [Other](#) (16)

Chronicle of Higher Education 9/23/2005, Vol. 52 Issue 5, pB20-B20  
2005

This article presents information related to liberal education in the U.S. Many applicants are preoccupied with such pressing questions as whether they will do well on the SAT or make the right college choice. Their parents might be worrying about tuition costs, and policy makers about continuing to increase access to higher education, improving graduation rates, decreasing college costs, and putting into effect new forms of institutional ...

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26

Age Equation Shirts.

Greenwood, James greenwood@hartford.edu

Mathematics Teacher Dec2005/Jan2006, Vol. 99 Issue 5, p362-364  
2005

The article presents some problems related to mathematics. It explains that "age" is only a number by solving a calculus problem printed on a T-shirt. The article aims to offer readers contemporary, authentic applications of quantitative reasoning that are based on print or electronic media.

Academic Search Premier(EBSCO) 

27

MEDIA Clips.

Cibes, Margaret 1 cibes@hartford.edu

Mathematics Teacher Oct2005, Vol. 99 Issue 3, p178-180  
2005

The article aims to offer the readers with contemporary authentic applications of quantitative reasoning that are based on print or electronic media including questions as well as clips. It presents mathematical questions related to several areas, like demography, prices, ages etc. The solutions to the questions are provided at the end of the article.

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28

Revamping Will Lengthen Graduate Entrance Exam.

TAMAR LEWIN

New York Times 10/18/2005, p16  
2005

The Graduate Record Exam, the graduate-school entrance exam, will be revamped and lengthened as of next October in an effort to give graduate schools a more useful measure of students' ability and to prevent cheating. Although the test will still include sections on verbal reasoning, quantitative reasoning and analytical writing, every section is being revised, and the test lengthened to about four hours, from two and a half hours. ...

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29

An Interview with Gale Roid About the Stanford-Binet 5.

Roid, Gale H. 1

North American Journal of Psychology 2005, Vol. 7 Issue 3, p493-504  
2005

Dr. Gale H. Roid was previously Dunn Professor of Educational and Psychological Assessment at Vanderbilt University. He was formerly Professor and Scholar in Residence in the Department of Psychology at Simpson University in Redding, California and Professor of Psychology in the Graduate School of Clinical Psychology at George Fox University. From 1980 to 1985 he was Director of Research for Western Psychological Services where he ...


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Liberal Arts Education

Masci, David

CQ Researcher  
1998

CQ Researcher Online (CQ Press) 

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