

Maths at University Interview Questions

Below is a list of questions that have been asked at interviews (mainly at Oxford/Cambridge, but also other universities too).

Sometimes the interviewer will gently ask such things as:

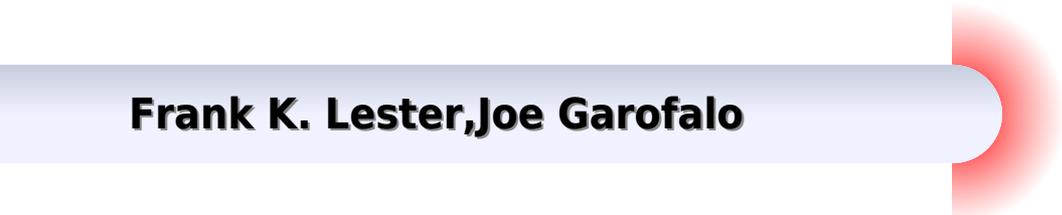
- Tell us about some maths books that you have been reading.
- Why do you want to study maths?
- What areas of maths do you like? (this is a prompt for the next question which will be on that topic!)

Mainly (particularly at Oxford/Cambridge) there is little or no gentle chit chat, and straight into the fun stuff like:

- Which is bigger 2^x or x^2 ?
- Draw $y = A(1 - e^{-Bx})^2$
- Differentiate $y = x^{\sin x}$
- Find an approximation to $1^4 + 2^4 + 3^4 + \dots + 100^4$
- Draw $y = \frac{e^\theta}{1 + e^\theta} \sin \theta$ and $x = \frac{e^\theta}{1 + e^\theta} \cos \theta$
- Draw $y = \cos x^{\cos x}$
- Prove $\frac{a}{b} + \frac{b}{a} \geq 2$
- Draw: $y = e^x$, $y = e^{-x}$, $y = \frac{e^x + e^{-x}}{2}$
- Draw $y = \frac{\sin x}{x}$
- Prove $n^7 - n$ is always divisible by 42.
- $(6 + \sqrt{37})^{20} = 4398704651 \dots \bullet 9999999999 437569 \dots$
Can you show why this number is so close to an integer?
- On a plane each individual point can be either red, white or blue. Prove that at some point on the plane two points will be at a distance of one unit apart and the same colour.

Math Interview Test

Frank K. Lester, Joe Garofalo



Math Interview Test:

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Guided Math in Action Nicki Newton, 2014-01-09 Teachers coaches and supervisors will learn how to help elementary school students build mathematical proficiency with standards based differentiated small group instruction with the strategies in this book Both novice and veteran educators will gain in depth knowledge for conducting effective guided math lessons scaffolding learning in small groups and assessing student learning Lots of actual templates graphic organizers black line masters detailed lesson plans and student work samples are included as well as vignettes of mini lessons center time small guided math groups and share time This practical hands on guide will help you Understand the framework of Guided Math lessons Gain an in depth look at the role of assessment throughout the Guided Math process Develop an action plan to get

started immediately This is a must have resource for all educators looking for a structure to teach small groups in math that meet the Common Core State Standards for Mathematics McGraw-Hills SAT Subject Test 10: Math Level 2 Practice Tests Christine Caputo,2012-01-27 Expert guidance on the Math Level 2 SAT Subject Test Many colleges and universities require you to take one or more SAT II Subject Tests to demonstrate your mastery of specific high school subjects McGraw Hill s SAT Subject Test 10 Math Level 2 Practice Tests is written by experts in the field and gives you the guidance you need perform at your best This book includes 10 full length sample tests with complete answer explanations 30 top tips to remember on test day Everything you need to know about the SAT Subject Test in Math Level 2 testing requirements when to register how scores are reported and more Sample exams and problems designed to match the real test in content and level of difficulty Practice tests just like the real SAT Subject Test in Math Level 2 Hundreds of practice problems with answers and explanations

Experimental Analysis of the Effects of Testing Accommodations on Students' Standardized Mathematics Test Scores Aleta A. Gilbertson Schulte,2000 **McGraw-Hill's SAT Subject Test Math Level 2, 3rd Edition** John Diehl,2012-01-31 Many colleges and universities require you to take one or more SAT II Subject Tests to demonstrate your mastery of specific high school subjects McGraw Hills SAT Subject Test Math Level 2 is written by experts in the field and gives you the guidance you need perform at your best This book includes 9 full length sample tests updated for the latest test format30 top test items to remember for test dayGlossary if tested math terms and formulasEverything you need to know about the SAT Subject Test in Math Level 2 testing requirements when to register how scores are reported and moreDiagnostic test to pinpoint strengths and weaknessesSample exams and problems designed to match the real test in content and level of difficultyStep by step review of all topics covered on the examPractice tests just like the real SAT Subject Test in Mathematics Level 2Test taking tips and strategies

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Development of a Test of Mathematical Problem Solving which Yields a Comprehension, Application, and Problem Solving Score Diana Wearne,1976 *Resources in education* ,1982 **Math Educ** ,2007 Contains abstracts in the field of mathematics education extracted from documents worldwide *Math Advantage, Grade 1* Harcourt Brace,1999

The ETS Test Collection Catalog Educational Testing Service, 1989 The major source of information on the availability of standardized tests
Wilson Library Bulletin Covers commercially available standardized tests and hard to locate research instruments
Math Advantage, Grade 4 Harcourt Brace Publishing, 1997-09-12
Mathematical Problem Solving Frank K. Lester, Joe Garofalo, 1982 This set of papers was originally developed for a conference on Issues and Directions in Mathematics Problem Solving Research held at Indiana University in May 1981 The purpose is to contribute to the clear formulation of the key issues in mathematical problem solving research by presenting the ideas of actively involved researchers An introduction provides an overview of each paper The papers focus on the psychology of mathematical problem solving
R E Mayer knowledge organization
E A Silver implications from information processing psychology
D J Briars building bridges between psychological and mathematics education research
F K Lester Jr measuring problem solving outcomes
G A Goldin a model for elementary teacher training in problem solving
J F LeBlanc applied problem solving
R Lesh and M Akerstrom a concept learning perspective
R J Shumway and a statement of issues
H L Schoen MNS
Secret Messages David J. Alvarez, 2000 Alvarez politics Saint Mary's College of California traces one chapter in the history of cryptology Drawing upon military and intelligence archives interviews with retired and active cryptanalysts and recently declassified cryptologic documents he examines the contributions that the U S Army's top secret Signal Intelligence Service SIS made to the war effort before and after World War II Alvarez traces the development of the SIS and describes the code breaking process He also considers the relationship between intelligence and foreign policy
Math Advantage, Grade 5 Harcourt Brace, 1999
Math Advantage, Grade 2 Harcourt Brace, Harcourt School Publishers Staff, 1999
Tests in Print, 2002
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Women and Mathematics Susan F. Chipman, Lorelei R. Brush, Donna M. Wilson, 1985 First Published in 1985 Routledge is an imprint of Taylor Francis an informa company

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