

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.

Sample Interview Maths Test

Marilyn N. Suydam



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Teaching Elementary Mathematics Nancy L. Smith, Diana V. Lambdin, Mary Lindquist, Robert Reys, 2012-04-13 This Field Experience Manual helps students design and reflect on classroom observations interviews and sample teaching activities This workbook will enable students to work within the text allowing instructors to assign work from the text itself Smith Teaching Elementary Mathematics A Resource for Field Experiences can be used with any Elementary Math Methods text

Evaluation in the Mathematics Classroom Marilyn N. Suydam, 1974 *Classroom Assessment for Students with Special Needs in Inclusive Settings* Cathleen G. Spinelli, 2002 Imagine a world in which every single person on the planet is given free access to the sum of all human knowledge That s what we re doing Jimmy Wales With more than 2 000 000 individual articles on everything from Aa a Japanese pop group to Zzyzx California written by an army of volunteer contributors Wikipedia is the 8 site on the World Wide Web Created and corrected by anyone with access to a computer this impressive assemblage of knowledge is growing at an astonishing rate of more than 30 000 000 words a month Now for the first time a Wikipedia insider tells the story of how it all happened from the first glimmer of an idea to the global phenomenon it s become Andrew Lih has been an administrator a trusted user who is granted access to technical features at Wikipedia for more than four years as well as a regular host of the weekly Wikipedia podcast In The Wikipedia Revolution he details the site s inception in 2001 its evolution and its remarkable growth while also explaining its larger cultural repercussions Wikipedia is not just a website it s a global

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Resources in Education, 1997

Students with Learning Disabilities Cecil D. Mercer, Paige C. Pullen, 2009 For courses in Learning Disabilities The seventh edition of this popular text offers comprehensive coverage and a balanced approach of all of the varying theories and practices in the field educational medical and psychological incorporating assessment definition characteristics and strategies all to help readers develop their own personal perspective It presents equal treatment to information about the characteristics definitions causes and controversies of learning disabilities with each researched based topic clearly designed to support both diagnosis and intervention Throughout the text best practices have been identified through thorough research and practical examples Revised to include the latest research and recent developments the seventh edition reflects the latest trends in the field of learning disabilities The authors have included new and expanded coverage of cultural diversity Responsiveness to Intervention techniques for identifying students with learning disabilities expanded coverage of effective practices to prevent and remediate reading difficulties effective assessment strategies and teaching practices in the academic areas based on recent research a new chapter on ADHD a focus on how to teach and manage students with learning disabilities and information on the 2004 reauthorization of IDEA and the 2006 Code of Federal Regulations Current and classic Students with Learning Disabilities Seventh Edition will stimulate and interest its readers about the nature and needs of individuals with learning disabilities

Teamwork Test Prep Grade 5 Reading and Math Drew Johnson, Cynthia Johnson, 2004-04

Designing Tests for Evaluating Student Achievement James S. Cangelosi, 1990

NIE Papers in Education and Work National Institute of Education (U.S.), 1977

The Woman Question Mary Evans, 1994-06-24 This new edition of The Woman Question brings together the most influential analyses of women's position in society to have emerged in the past decade The discussion encompasses both theoretical issues of identity and the economic and political status of women It demonstrates the impact of gender not only on how the social world is organized but on how we understand and interpret that world Recognizing the diversity of women's experiences it pays particular attention to the interactions of race class gender and sexuality Leading feminists explore the concept of gender difference its impact on women and its representation in culture They discuss the material realities of women's lives and how these are

Teaching Students with Mild and High-incidence Disabilities at the Secondary Level Edward James Sabornie, Laurie Ungerleider DeBettencourt, 2004 Focusing on the needs of secondary level learners with common disabilities a group often neglected by other books on the market Teaching Students with Mild and High Incidence Disabilities at the Secondary Level presents numerous research proven instructional methods and strategies It thoroughly examines the methods that are effective across the board as well as methods specific to particular challenges The authors address special education theory and relevant research in simple straightforward language that uses minimal jargon making concepts

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