

GCSE MATHEMATICS ANSWERS
NON-CALCULATOR QUESTIONS

1. a) $\frac{87}{150} \times 100 = \frac{87}{3} \times 2 = 58\%$	M1 A1 [2]
b) $\frac{84}{100} \times 150 = \frac{84}{2} \times 3 = 126$ marks	M1 A1 [2]
2. a) 300 Francs = 15 lots of 20 Francs So she spends $15 \times £2.10$ $15 \times £2.10 = 10 \times £2.10 + 5 \times £2.10$ $= £21 + £10.50 = £31.50$	M1 (or equiv) M1 (any valid method) A1 [3]
b) $£56 \div £2.10 \times 20$ $\frac{5600}{210} \times 20 = \frac{80}{3} \times 20 = \frac{1600}{3} = 533$ Francs	M1 M1 A1 [3]
3. a) $39 \div 12 = 3.25$	M1 A1 [2]
b) Five feet and five inches is 65 inches. So need to calculate $65 \div 39$ $\frac{65}{39} = \frac{5}{3} = 1.67\text{m}$	M1 M1 A1 [3]
4. a) 2.3×10^5 4.093×10^6 1×10^{-4}	B3 (-1 for each extra) [3]
b) i) $3.2 \times 10^3 \times 2 \times 10^2 = 6.4 \times 10^5$	B1 (6.4) B1 (10^5) [2]
ii) $3.2 \times 10^3 \times 2 \times 10^2 = 3200 + 200 = 3400 = 3.4 \times 10^3$	M1 A1 [2]
iii) $4.0 \times 10^{-2} \div (2 \times 10^2) = 2.0 \times 10^{-4}$	B1 (2) B1(10^{-4}) [2]
5. a = 50° ; (vertically) opposite angles b = 50° ; corresponding to 50° (or alternate to a) c = 130° ; angles on a straight line sum to 180° d = 70° ; the other two angles in the triangle are 60° ($180 - 120$) and 50° (opposite)	B2 B2 B2 B1 M1 A1 [9]

November 2013 Mathematics A Non Calc

Richard Bailey



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Mathematics and Mechanics - The Interplay Luigi Morino, 2021-06-19 Mathematics plays an important role in mechanics and other human endeavours Validating examples in this first volume include for instance the connection between the golden ratio the divine proportion used by Phidias and many other artists and enshrined in Leonardo's Vitruvian Man shown on the front cover and the Fibonacci spiral observable in botany e.g. in the placement of sunflower seeds is the coast of Tuscany infinitely long the equal time free fall of a feather and a lead ball in a vacuum a simple diagnostic for changing your car's shocks the Kepler laws of the planets the dynamics of the Sun Earth Moon system the tides mechanism the laws of friction and a wheel rolling down a partially icy slope and many more The style is colloquial The emphasis is on intuition lengthy but intuitive proofs are preferred to simple non intuitive ones The mathematical mechanical sophistication gradually increases making the volume widely accessible Intuition is not at the expense of rigor Except for grammar school material every statement that is later used is rigorously proven Guidelines that facilitate the reading of the book are presented The interplay between mathematics and mechanics is presented within a historical context to show that often mechanics stimulated mathematical developments Newton comes to mind Sometimes mathematics was introduced independently of its mechanics applications such as the absolute calculus for Einstein's general theory of relativity Bio sketches of all the scientists encountered are included and show that many of them dealt with both mathematics and mechanics [How Not to Be Wrong](#)

Jordan Ellenberg, 2014-05-29 Witty compelling and just plain fun to read Evelyn Lamb Scientific American The Freakonomics of math a math world superstar unveils the hidden beauty and logic of the world and puts its power in our hands The math we learn in school can seem like a dull set of rules laid down by the ancients and not to be questioned In *How Not to Be Wrong* Jordan Ellenberg shows us how terribly limiting this view is Math isn't confined to abstract incidents that never occur in real life but rather touches everything we do the whole world is shot through with it Math allows us to see the hidden structures underneath the messy and chaotic surface of our world It's a science of not being wrong hammered out by centuries of hard work and argument Armed with the tools of mathematics we can see through to the true meaning of information we take for granted How early should you get to the airport What does public opinion really represent Why do tall parents have shorter children Who really won Florida in 2000 And how likely are you really to develop cancer *How Not to Be Wrong* presents the surprising revelations behind all of these questions and many more using the mathematician's method of analyzing life and exposing the hard won insights of the academic community to the layman minus the jargon Ellenberg chases mathematical threads through a vast range of time and space from the everyday to the cosmic encountering among other things baseball Reaganomics daring lottery schemes Voltaire the replicability crisis in psychology Italian Renaissance painting artificial languages the development of non Euclidean geometry the coming obesity apocalypse Antonin Scalia's views on crime and punishment the psychology of slime molds what Facebook can and can't figure out about you and the

existence of God Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need Math as Ellenberg says is an atomic powered prosthesis that you attach to your common sense vastly multiplying its reach and strength With the tools of mathematics in hand you can understand the world in a deeper more meaningful way How Not to Be Wrong will show you how **Harmonic Analysis and Applications**

Carlos E. Kenig,2020-12-14 The origins of the harmonic analysis go back to an ingenious idea of Fourier that any reasonable function can be represented as an infinite linear combination of sines and cosines Today s harmonic analysis incorporates the elements of geometric measure theory number theory probability and has countless applications from data analysis to image recognition and from the study of sound and vibrations to the cutting edge of contemporary physics The present volume is based on lectures presented at the summer school on Harmonic Analysis These notes give fresh concise and high level introductions to recent developments in the field often with new arguments not found elsewhere The volume will be of use both to graduate students seeking to enter the field and to senior researchers wishing to keep up with current developments

Education Is Not an App Jonathan A. Poritz,Jonathan Rees,2016-08-12 Whilst much has been written about the doors that technology can open for students less has been said about its impact on teachers and professors Although technology undoubtedly brings with it huge opportunities within higher education there is also the fear that it will have a negative effect both on faculty and on teaching standards Education Is Not an App offers a bold and provocative analysis of the economic context within which educational technology is being implemented not least the financial problems currently facing higher education institutions around the world The book emphasizes the issue of control as being a key factor in whether educational technology is used for good purposes or bad purposes arguing that technology has great potential if placed in caring hands Whilst it is a guide to the newest developments in education technology it is also a book for those faculty technology professionals and higher education policy makers who want to understand the economic and pedagogical impact of technology on professors and students It advocates a path into the future based on faculty autonomy shared governance and concentration on the university s traditional role of promoting the common good Offering the first critical in depth assessment of the political economy of education technology this book will serve as an invaluable guide to concerned faculty as well as to anyone with an interest in the future of higher education

Utah Code Annotated 1953 Utah,1953 *The Age of Scientific Naturalism* Michael S Reidy,2015-07-28 The essays in this volume focus on the way Victorian Physicist John Tyndall and his correspondents developed their ideas through letters periodicals and journals and challenge assumptions about who gained authority and how they attained and defended their position within the scientific community **Revista**

Matemática Iberoamericana ,2017 **Advanced Design and Manufacturing Technology IV** Jian Zhong Lin,Tian Hong Yan,Xin Sheng Xu,Zheng Yi Jiang,2014-09-19 Selected peer reviewed papers from the 4th International Conference on Advanced Design and Manufacturing Engineering ADME 2014 July 26 27 2014 Hangzhou China **Loose-leaf Version for**

Calculus Combo Michael Sullivan,2014-03-14 Michael Sullivan and Kathleen Miranda have written a contemporary calculus textbook that instructors will respect and students can use Consistent in its use of language and notation Sullivan Miranda s Calculus offers clear and precise mathematics at an appropriate level of rigor The authors help students learn calculus conceptually while also emphasizing computational and problem solving skills The book contains a wide array of problems including engaging challenge problems and applied exercises that model the physical sciences life sciences economics and other disciplines Algebra weak students will benefit from marginal annotations that help strengthen algebraic understanding the many references to review material and extensive practice exercises Strong media offerings include interactive figures and online homework Sullivan Miranda s Calculus has been built with today s instructors and students in mind **The Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Lords,2014 *Bangladesh Primary Education Annual Sector Performance Report* Second Primary Education Development Program (Bangladesh).,2013 **The Engineering Index Annual for ...** ,1910 *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons,2010 **Mining and Scientific Press** ,1894 **Journal of Petroleum Technology** ,1983-07 The Engineering Index ,1910 **Engineering Index Annual** ,1910 **Government Reports Announcements** ,1974-03-22 *House of Commons Debates, Official Report* Canada. Parliament. House of Commons,2004 *Official Report of the Debates of the House of Commons* Canada. Parliament. House of Commons,2004-11

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