## It is not often realised how much the world is indebted to India for mathematics



he Prime Minister has declared 2012 as the Mattional Year of Mathemustics. The terroible irony in this ought to be widely known.

First, we meed some history. Buropeans learnt basic arithmetic (algorithms for addition, multiplicutton, division, square roots, etc.) from India, Indian arithmetic was famous for its efficiency: it travelled to Eaghdad, where al Khwartzeni. wrote a book Pitrals at Mind in the 9th century. Busopeans called this. technique Algorismos Cafter al-Khwarigmi's Latinized name). Florentine everybants understood that superior arithmetic gives a comparative advantage in commerce. fluropeans eventually accepted the algorismus, rejecting as inferior the primitive abacus they earlier used.

Earlier, European Ignorance of arithmetic is also reflected in their crude calendar. The year and months are based on the solar and lumar cycles, both of which involve fractions of days. But precise fractions cannot be readily written. in Roman numerals, So, Europeana could not articulate the correct lengths of the month and the year, limitend, they published to the vanity of Boman emperore by adding outra days to July and August to honour Jolius and Appropriate Carsot. These days were pinched from Pebruary. The result

in a tihoeologish sanscientific calendar with months of 28, 29, 50; and 31 days, unrelated to the cycle of the moon after which the month. is named. Because Romans knew only a few simple fractions (like %) they wrongly stated the length. of the (tropical) year in 365% days. This was hopeless even by contemportery standards: the 3rd dentury: Surve Scidhanta in India and the 5th century. Aryabbata both give far more precise fractions for the langth of the (sidereal) year.

This inferior Roman calendar became the Christian relicious. calendar, used to fix the date of Easter, then the key Christian featival, which depends upon the full moon. Because of the wrong length. of the year, the dates of Easter kept dipping. The church repeatedly tried to reform the calendar, but failed. The church then had full control over Alexandria, so these failures prove that the Alexandrian Greeks then lacked good knowledge of astronomy, not withstanding the tall Western claims made on their behalf to-far. Those claims are based on the book called Alteraport, which, like any scientific test, is accretive. Though it gives a better length of the (tropical) year. even that inaccurate later-day figune was never incorporated in the Bom an calendar. The visth-century calendar reforms by Diocystus. Exaguus only setrospectively fixed. the zero point of this calendar. which later somehow got related to the borth of Jesus due to the use of the terms A.D and B.C.

In contrast, the Indian calendar had critical practical applications. It was in this consection that calculus was invented in the 5th. century by Arrabbata, a low caste muthematician from Patna, Aryabhata used the calculus to calculate sine values accurate to five decimal.



places. This tradition was carried. forward by the Aryabhata school in-Kerala, which involved the highest caste Namboodri Brahmins, transomding north-south and caste differences. Over the next thosasand years they calculated trigomometric values accurate to the 9th. decimal place. Why did to diamneed this phenomenal precision? What social need did it fulfil? The struple anyoner is thin the Indian. economy depended on rain-fed. agriculture. That required a good calendar to synchronise agriculhand-operations with the rator seanon. Constructing such a calendar, which could tell the runsy season. required accurate astronomical models and accurate tragonometric. values. The other source of wealthincludia was overseas trade, which too required, accorate trigonometrtic values for mavigation...

In the 16th century, the Buropean navigation problem was the key scientific challenge. Its solution needed accurate trigonometric values. Hence, calculus texts of the Aryabhata school in Kerala. were translated and insported into flurope by Jesuits based in Cochin.

Europeans then found it difficult. to fix even latitude at sea, because their calendar gave the wrong date. of equinos. Matteo Ricci, who was in India, provided inputs to his teacher Christoph Cluvius who authored the Gregorian calendar orderes of 1582. Common Europeany were still unconsfortable with fractions, so that reform corrected. the length of the year, not by statling it as an accurate fraction, but by an ad box system of leap years! It also out out ten whole days which had piled up due to the error inthe Christian calendar. Though Clavius published (in his name) trigonometric tables based on the Indian values, accurate to the 9thdecimal place, he did not know. even the elementary trigonometry pequined to determine the size of the earth! That was accurately kinomen in Iradia from before Arv. abbata, and Caliph al Marron had confirmed it by direct measurement in the 9th century. Columbus, however, underestimated the size of the earth bringing it down. to 40 per cent of the correct Indo-Arabic figure, to facilitate funding for his project of sailing west to

go east. Consequently, Europeans. then could not determine longitude at sea either - a problem they solved only in the late 18th century.

Westerners consistently wrote history to glorify themselves and belittle non-Christians, so they mever acknowledged learning calcultur from India. For centuries, the culculus was attributed to Newton. and Leibnia. This false history was a source of political power; it was used by the Whig historian Macanlay to assert Western superiority and institute Western education to India facilitating colonisation.

Maturally, the Western-educated learn the Gregorian calendur and the ADEC superstition. Most Western 'educated' Indians expensed arrange program that properties canthe Indian calendar. Since Indian festivals are fixed by the Indian calendar, but move on the Gregorian calendar, this invites cultural alternation - few know how to fix the date of Diwalt, for example. The most track contemporary conseguenoes are in agriculture, for the Gregorian calendar has no concept of a rater season, like Savan and Bhadon on the Indian calendar. Several times in the last decade, the monocons were delayed on the Gregorian calendar. False anticipation of drought was followed by floods, in 2003, 2004, and 2009. But the rains arrived in time on the Developes mallemetical

So, was the monsoon delayed or is the calendar wrong! Anyway, the pooper farmers were ruined because they credulously. believed the 'expects' and mistimed conservations.

It is, therefore, iromic that the National Year of Mathematics' is a sear on the Western calendar.

The author is Professor of results resulted at the University of Scheeler Multigoria

# **Maths Articles In Newspaper**

**Sue Howarth, Linda Scott** 

#### **Maths Articles In Newspaper:**

Breaking Images Brian Greer, David Kollosche, Ole Skovsmose, 2024-12-11 Mathematics is an activity something we do not just something inert that we study This rich collection begins from that premise to explore the various social influences institutional forces and lived realities that shape and mould the study and practice of mathematics and are moulded by it in turn These twenty one essays explore questions of mathematics as a topic of philosophy but also the nature and purpose of mathematics education and the role of mathematics in moulding citizens It challenges the biases and prejudices inherent within uninformed histories of mathematics including problems of white supremacy the denial of cultural difference and the global homogenization of teaching methods In particular the book contrasts the effectiveness of mathematics and science in modelling physical phenomena and solving technical problems with its ineffectiveness in modelling social phenomena and solving human problems and urges us to consider how mathematics might better meet the urgent crises of our age The book addresses anybody who is interested in reflecting on the role of mathematics in society from different perspectives It allows mathematicians to ponder about the cultural connections of mathematics and provides new perspectives for philosophical sociological and cultural studies of mathematics Because of the book s emphasis on education in mathematics it is especially interesting for mathematics teachers and teacher educators to challenge their understanding of the subject Mutation Classics Erik Seligman, 2016-04-22 Use math in unique ways to analyze things you observe in life and use proof to attain the unexpected There is guite a wide diversity of topics here and so all age levels and ability levels will enjoy the discussions You ll see how the author's unique viewpoint puts a mathematical spin on everything from politicians to hippos Along the way you will enjoy the different point of view and hopefully it will open you up to a slightly more out of the box way of thinking Did you know that sometimes 2 2 equals 5 That wheels don t always have to be round That you can mathematically prove there is a hippopotamus in your basement Or how to spot four dimensional beings as they pass through your kitchen If not then you need to read this book Math Mutation Classics is a collection of Erik Seligman's blog articles from Math Mutation at MathMutation com Erik has been creating podcasts and converting them in his blog for many years Now he has collected what he believes to be the most interesting among them and has edited and organized them into a book that is often thought provoking challenging and fun What You Will Learn View the world and problems in different ways through math Apply mathematics to things you thought unimaginable Abstract things that are not taught in school Who this Book is For Teenagers college level students and adults who can gain from the many different ways of looking at problems and feed their interest in mathematics Schoolteachers in the News Kathryn Shine, Tom O'Donoghue, 2013-02-28 Research examining how schoolteachers have been represented in the news is scarce This is noteworthy given the recognition that the news media has an influential agenda setting function plays a pivotal role in shaping public opinion and can influence educational policy Indeed there is a view amongst some authorities that education policy and news media

coverage are irrevocably interconnected Specifically in relation to newspapers research indicates that their coverage can be particularly influential in informing and influencing public debate and policy about a variety of educational issues Research has also been conducted on the reactions of teachers reporting that they perceive news media coverage as important in shaping public opinion and education policy as well as affecting their relationships with families friends and the community Teachers in various countries have also expressed frustration at what they have perceived as a negative focus in coverage Furthermore news media coverage has been seen to play a role to the decline in the status of teaching that has been documented by researchers from many developed countries over the past three decades It has been claimed that contemporary news media coverage has led to greater scrutiny and criticism of the teaching profession than ever before with educators increasingly having to explain and justify their work In addition to the widespread concern about the decline in the status of teaching many countries are experiencing ongoing teacher recruitment and retention problems Despite this very few studies have considered how schoolteachers and teaching as a profession are depicted in the news media Particularly scarce are investigations with a historical dimension This book helps fill the gap by examining the reporting in The West Australian newspaper one of the oldest newspapers in Australia and a daily publication since 1885 It is offered as a contribution towards rectifying the deficit in the corpus of work on how newspapers have depicted teachers and points the way towards one of a number of avenues of research that other scholars in the field could take for various contexts including different countries and time periods The specific aim of the study is to provide a historical analysis of The West Australiannewspaper's representation of teachers over two decades To that end it examines the portrayal of teachers in its reporting of five major educational developments in the state of Western Australia that were the subject of sustained coverage at various times between 1987 and 2007 unit curriculum 1987 1989 industrial dispute 1995 standardised testing 1997 2001 teacher shortage 1997 2007 and outcomes based education 2005 2007 Although the study focused on The West Australian newspaper the topics chosen reflect the international trends and universal issues in education Each of the topics in the study is located within the broader context of related developments internationally and especially in the United States the United Kingdom and Australia Three key representations of teachers are identified negative representations sympathetic representations and positive representations The negative representations refer to coverage which is overtly critical of teachers such as reporting which condemns teachers for taking industrial action the sympathetic representations relate to reporting which typically presents teachers as stressed overburdened and powerless and the positive representations show teachers as valued by the community and devoted to their students and work The central argument of the study is that The West Australian's coverage was dominated by both negative and sympathetic representations of schoolteachers while positive representations were relatively rare Overall the coverage presented a less flattering image of teachers than that which emerges from the educational research literature yet it provided a more balanced presentation of teachers than the

extremes of hero and villain which tend to dominate popular culture Its portrayal of teachers was generally consistent with that of other news media with a movement towards a more sympathetic treatment in recent reporting reflecting a trend also identified in contemporary British newspaper coverage Although the sympathetic coverage did recognize the challenges faced by teachers it consistently presented teaching as a profession in a negative light Across the coverage there was almost a total absence of voices defending teaching or presenting it as an attractive career option In addition comments of any type from individual teachers were rare Overall the book highlights the need for key media spokespeople in education politicians union representatives bureaucrats and academics to consider carefully the messages they want to send regarding teachers and teaching It also points to implications for journalism education and journalism practice This book should be read by those working in the fields of educational policy journalism education media studies and history of education internationally particularly those working in these fields in the United States Canada the United Kingdom Australia and New Zealand

Mathematical Publishing Steven George Krantz, Mathematicians are expected to publish their work in journals conference proceedings and books It is vital to advancing their careers Later some are asked to become editors However most mathematicians are trained to do mathematics not to publish it But here finally for graduate students and researchers interested in publishing their work Steven G Krantz the respected author of several how to guides in mathematics shares his experience as an author editor editorial board member and independent publisher This new volume is an informative comprehensive guidebook to publishing mathematics Krantz describes both the general setting of mathematical publishing and the specifics about all the various publishing situations mathematicians may encounter As with his other books Krantz s style is engaging and frank He gives advice on how to get your book published how to get organized as an editor what to do when things go wrong and much more He describes the people the language including a glossary and the process of publishing both books and journals Steven G Krantz is an accomplished mathematician and an award winning author He has published more than 130 research articles and 45 books He has worked as an editor of several book series research journals and for the Notices of the AMS He is also the founder of the Journal of Geometric Analysis Other titles available from the AMS by Steven G Krantz are How to Teach Mathematics A Primer of Mathematical Writing A Mathematician's Survival Guide and Techniques of Problem Solving Maths Meets Myths: Quantitative Approaches to Ancient Narratives Ralph Kenna, Máirín MacCarron, Pádraig MacCarron, 2016-09-22 With an emphasis on exploring measurable aspects of ancient narratives Maths Meets Myths sets out to investigate age old material with new techniques This book collects for the first time novel quantitative approaches to studying sources from the past such as chronicles epics folktales and myths It contributes significantly to recent efforts in bringing together natural scientists and humanities scholars in investigations aimed at achieving greater understanding of our cultural inheritance Accordingly each contribution reports on a modern quantitative approach applicable to narrative sources from the past or describes those which would be amenable to such

treatment and why they are important This volume is a unique state of the art compendium on an emerging research field which also addresses anyone with interests in quantitative approaches to humanities Canadian Journal of Mathematics **Primary Mathematics** Penelope Baker, Rosemary Callingham, Tracey Muir, 2023-09-07 Primary Mathematics Integrating Theory with Practice is a comprehensive introduction to teaching mathematics in Australian primary schools Closely aligned with the Australian Curriculum it provides a thorough understanding of measurement geometry patterns and algebra data and statistics and chance and probability The fourth edition provides support for educators in key aspects of teaching planning assessment digital technologies diversity in the classroom and integrating mathematics content with other learning areas It also features a new chapter on the role of education support in the mathematics classroom Each chapter has been thoroughly revised and is complemented by classroom snapshots demonstrating practical application of theories activities to further understanding and reflection questions to guide learning New in this edition are Concepts to consider which provide a guided explanation and further discussion of key concepts to support pre and in service teachers learning and teaching of the fundamentals of mathematics International Journal of Mathematical Combinatorics, Volume 4, 2009 Linfan Mao, Topics in detail to be covered are Smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces Smarandache geometries Differential Geometry Geometry on manifolds Combinatorial designs Combinatorial enumeration Other applications of Smarandache multi space and combinatorics

Exploring Education Policy Through Newspapers and Social Media Aspa Baroutsis, Bob Lingard, 2023-06-07 Exploring Education Policy Through Newspapers and Social Media offers an original theorised and empirically based account of contemporary representations rearticulations and reimaginings of education policy through news and new media In its thorough exploration of the uses and effects of newspapers and Twitter in education policy the book provides a detailed research based account of media influences and opens up multiple future research agendas in media sociology and policy sociology in education The authors place an important analytical focus on mediatisation and social mediatisation or deep mediatisation and how both have effects and affects in education policy and politics Their analyses situate these sociologically within changing societies changing media and changing education policy. The book also explores the effects of datafication and digitalisation of the social in all forms of media and their manifestations in morphing imbrications between the global the national and the local in education policies This book will be of great interest to researchers scholars and higher degree research students in the domains of media sociology and policy sociology of education It also will be of interest to policymakers and politicians in education teacher unions and education activists journalists and those concerned about the impacts of the decline in legacy media and the surveillance and commercialisation possibilities of new media Success with STEM Sue Howarth, Linda Scott, 2014-11-13 Success with STEM is an essential resource packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school It offers guidance on

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The Markets for News Helle Sjøvaag,2022-11-17 In the face of ongoing digitisation The Markets for News examines how certain established economic features of the news industry have persisted and what makes them such stable frameworks for journalistic organisations Drawing on an analysis of Scandinavian news industries this text revises journalism s economic foundations in the context of the algorithmically driven platform economy Exploration of features such as journalism s two sided market model the network effect of platforms and chain ownership leads to a discussion about how journalism faces disruption from the introduction of artificial intelligence in the production dissemination and sale of news As journalism undergoes transformations due to revenue losses this book recognises a return to certain enduring features of journalism s organisational form in particular the chain ownership form that enables scale in adapting to platform logics and economics. This text serves as a basis for a theoretical discussion about strategic media management and critical political economy in the age of digital disruption This is an insightful book for academics and researchers in the fields of journalism media industries media policy and communication studies

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