

National Year of Mathematics

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

C. R. RAJ



The Prime Minister has declared 2012 as the National Year of Mathematics. The terrible irony in this ought to be widely known.

First, we need some history. Europeans learnt basic arithmetic (algorithms for addition, multiplication, division, square roots, etc.) from India. Indian arithmetic was famous for its efficiency; it is ascribed to Baghdad, where al-Khwarizmi wrote a book *Hisab al-Hind* in the 9th century. Europeans called this technique *Algorismus* (after al-Khwarizmi's Latinized name). Florentine merchants understood that superior arithmetic gives a comparative advantage in commerce. Europeans 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 lunar cycles, both of which involve fractions of days. But precise fractions cannot be readily written in Roman numerals. So, Europeans could not articulate the correct lengths of the months and the year. Instead, they pondered to the vanity of Rome an emperor by adding extra days to July and August to honour Julius and Augustus Caesar. These days were pinched from February. The result

is a thoroughly unscientific calendar with months of 28, 29, 30, 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 $\frac{1}{4}$) they wrongly stated the length of the (tropical) year as 365 $\frac{1}{4}$ days. This was hopeless even by contemporary standards: the 3rd century Surya Siddhanta in India and the 9th century Aryabhata both gave far more precise fractions for the length of the (sidereal) year.

This inferior Roman calendar became the Christian religious calendar, used to fix the date of Easter, then the key Christian festival, which depends upon the full moon. Because of the wrong length of the year, the dates of Easter kept slipping. 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 today. Those claims are based on the book called *Almagest*, which, like any scientific text, is accretive. Though it gives a better length of the (tropical) year, even that inaccurate later-day figure was never incorporated in the Roman calendar. The sixth-century calendar reforms by Dionysius Exiguus only retrospectively fixed the zero point of this calendar, which later somehow got related to the birth 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 connection that calculus was invented in the 5th century by Aryabhata, a low caste mathematician 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 Namboodiri Brahmins, transcending north-south and caste differences. Over the next thousand years they calculated trigonometric values accurate to the 8th decimal place. Why did Indians need this phenomenal precision? What social need did it fulfil? The simple answer is this: the Indian economy depended on rain-fed agriculture. That required a good calendar to synchronise agricultural operations with the rainy season. Constructing such a calendar, which could tell the rainy season, required accurate astronomical models and accurate trigonometric values. The other source of wealth in India was overseas trade, which too required accurate trigonometric values for navigation.

In the 16th century, the European 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 imported into Europe by Jesuits based in Cochin.

Europeans then found it difficult to fix even latitude at sea, because their calendar gave the wrong date of equinox. Matteo Ricci, who was in India, provided inputs to his teacher Christoph Clavius who authored the Gregorian calendar reforms of 1582. Common Europeans were still uncomfortable with fractions, so that reform corrected the length of the year, not by stating it as an accurate fraction, but by an ad hoc system of leap years! It also cut out ten whole days which had piled up due to the error in the Christian calendar. Though Clavius published (in his name) trigonometric tables based on the Indian values, accurate to the 9th decimal place, he did not know even the elementary trigonometry required to determine the size of the earth! That was accurately known in India from before Aryabhata, and Caliph al-Mansur 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 never acknowledged learning calculus from India. For centuries, the calculus was attributed to Newton and Leibniz. This false history was a source of political power: it was used by the Whig historian Macaulay to assert Western superiority and institute Western education in India, facilitating colonisation.

Naturally, the Western-educated learn the Gregorian calendar and the A.D.B.C. superstition. Most Western 'educated' Indians cannot even name the months on the Indian calendar. Since Indian festivals are fixed by the Indian calendar, but move on the Gregorian calendar, this invites cultural alienation – few know how to fix the date of Diwali, for example. The most tragic contemporary consequences are in agriculture, for the Gregorian calendar has no concept of a rainy season, like Sowing and Bhadon on the Indian calendar. Several times in the last decade, the monsoons 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 Indian calendar.

So, was the monsoon delayed or is the calendar wrong? Anyway, the poorer farmers were ruined because they credulously believed the 'experts' and mistimed operations.

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

The author is Professor of mathematics at the University of Science Malaysia

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