
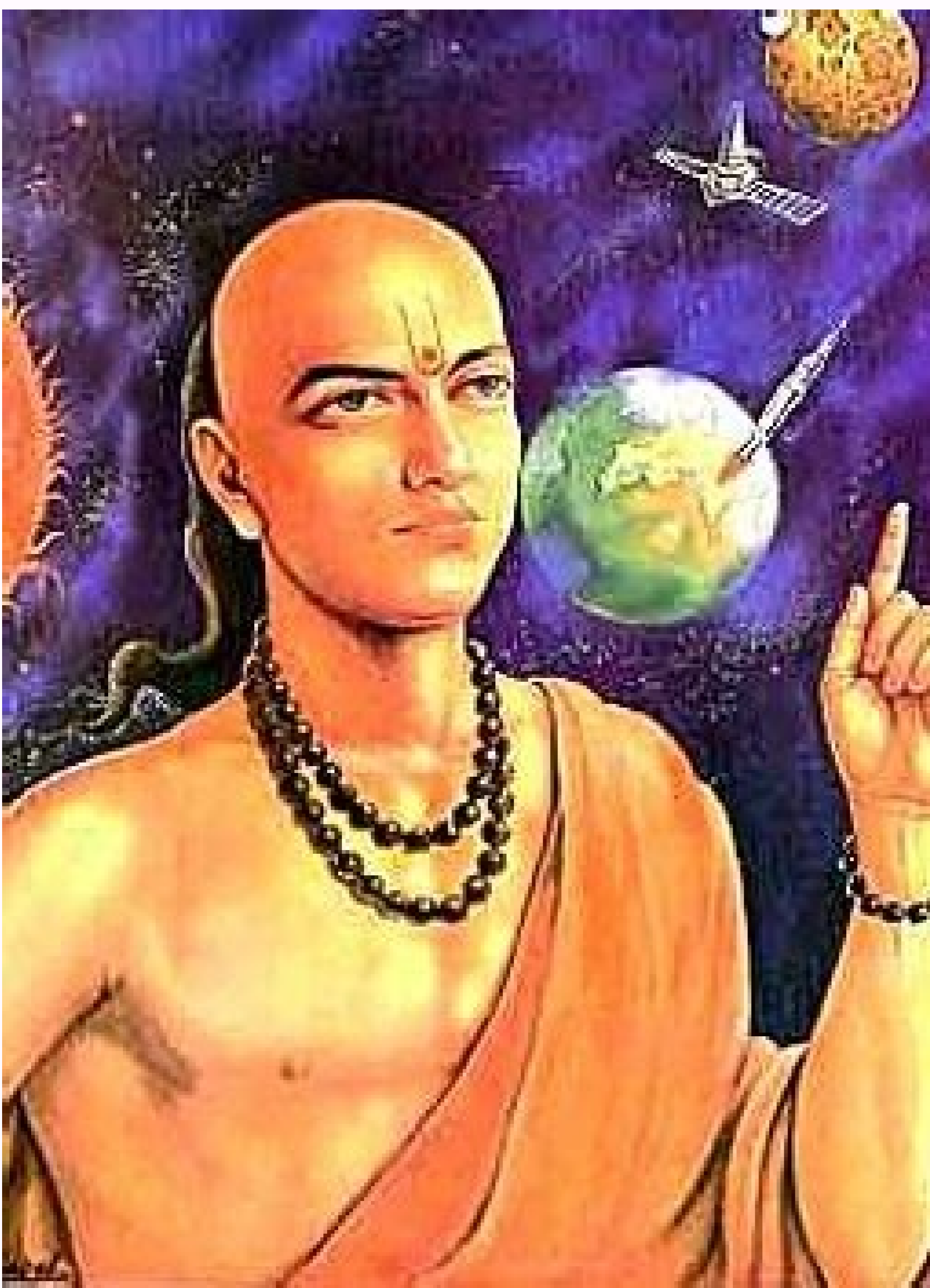
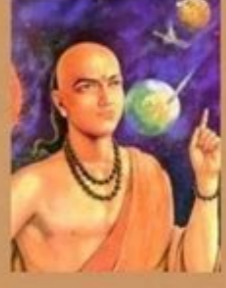


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- Name**
- While there is a tendency to misspell his name as "Aryabhata" by analogy with other names having the "bhata" suffix, his name is properly spelled Aryabhata: every astronomical text spells his name thus, including Brahmagupta's references to him "in more than a hundred places by name". Furthermore, in most instances "Aryabhata" does not fit the metre either.
- Time and place of birth**
- Aryabhata mentions in the *Aryabhatiya* that it was composed 3,600 years into the *Kali Yuga*, when he was 23 years old. This corresponds to 499 CE, and implies that he was born in 476.
- Aryabhata provides no information about his place of birth. The only information comes from *Bhaskara I*, who describes Aryabhata as *āśmakaīya*, "one belonging to the *āśmaka* country." During the Buddha's time, a branch of the *Āśmaka* people settled in the region between the *Narmada* and *Godavari* rivers in central India; Aryabhata is believed to have been born there.



In the case of Mars, Jupiter, and Saturn, they move around the Earth at specific speeds, representing each planet's motion through the zodiac. p. 82. In the Islamic world, they formed the basis of the Jalali calendar introduced in 1073 CE by a group of astronomers including Omar Khayyam,[45] versions of which (modified in 1925) are the national calendars in use in Iran and Afghanistan today. ^ Radhakrishnan Kuttoor (25 June 2007). "Aryabhata lived in Ponnani?". *The Hindu*. Archived from the original on 1 July 2007 ^ See: "Clark 1930 *S. He discovered that the apparent westward motion of stars is due to the spherical Earth's rotation about its own axis. ISBN 978-81-317-2890-1. Shukla and K. "Astronomy in India". Calendric calculations devised by Aryabhata and his followers have been in continuous use in India for the practical purposes of fixing the Panchangam (the Hindu calendar). In some texts, he seems to ascribe the apparent motions of the heavens to the Earth's rotation. In the case of Mercury and Venus, they move around the Earth at the same mean speed as the Sun. p. 46. In Thomas Hockey; et al. They were discussed extensively in ancient Vedic text *Sulba Sutras*, whose more ancient parts might date to 800 BCE. ^ Cooke (1997). "Online Etymology Dictionary". Aryabhata himself (one of at least two mathematicians bearing that name) lived in the late 5th and the early 6th centuries at Kusumapura (Pataliputra, a village near the city of Patna) and wrote a book called *Aryabhatiya*. ^ "Get ready for solar eclipse" (PDF). ^ Menon (2009). Aryabhata created a system of phonemic number notation in which numbers were represented by consonant-vowel monosyllables. Aryabhata gave the correct rule for the area of a triangle and an incorrect rule for the volume of a pyramid. M.E. Sharpe. "Aryabhata I", pp. 112-. Retrieved 24 January 2022. (March 2017) (Learn how and when to remove this template message) Aryabhata's work was of great influence in the Indian astronomical tradition and influenced several neighbouring cultures through translations. ^ "Aryabhata | Achievements, Biography, & Facts | Britannica". Different Types of History. *The Hindu*. ISBN 0-471-18082-3. V.1. Critically edited text with English translation and notes. His disciple Bhaskara I calls it *Ashmakatantra* (or the treatise from the *Ashmaka*). Archived from the original on 13 July 2007. ISBN 978-81-7319-432-0.: "Seven cardinal points are then defined on the equator, one of them called *Lañkā*, at the intersection of the equator with the meridional line through *Ujjaini*. 111. London: British Museum Press. p. 88. Orient Blackswan. "The Mathematics of the Hindus". ^ Britannica Educational Publishing (15 August 2010). In Helaine Selin (ed.). *Mathematical Achievements of Pre-modern Indian Mathematicians*. National Council of Science Museums, Ministry of Culture, Government of India. His model also gave corrections (the *sigra* anomaly) for the speeds of the planets in the sky in terms of the mean speed of the Sun. Archived from the original on 17 October 2007. www.britannica.com. It also contained a description of several astronomical instruments: the gnomon (*shanku-yantra*), a shadow instrument (*chhaya-yantra*), possibly angle-measuring devices, semicircular and circular (*dhanur-yantra* / *chakra-yantra*), a cylindrical stick *yasti-yantra*, an umbrella-shaped device called the *chhatra-yantra*, and water clocks of at least two types, bow-shaped and cylindrical. [12] A third text, which may have survived in the Arabic translation, is *Al ntf* or *Al-nanf*. ^ B.L. van der Waerden, "The Heliocentric System in Greek, Persian and Hindu Astronomy", in David A. ^ Amartya K Dutta, "Diophantine equations: The *Kuttaka*" Archived 2 November 2014 at the Wayback Machine, *Resonance*, October 2002. Retrieved 10 June

