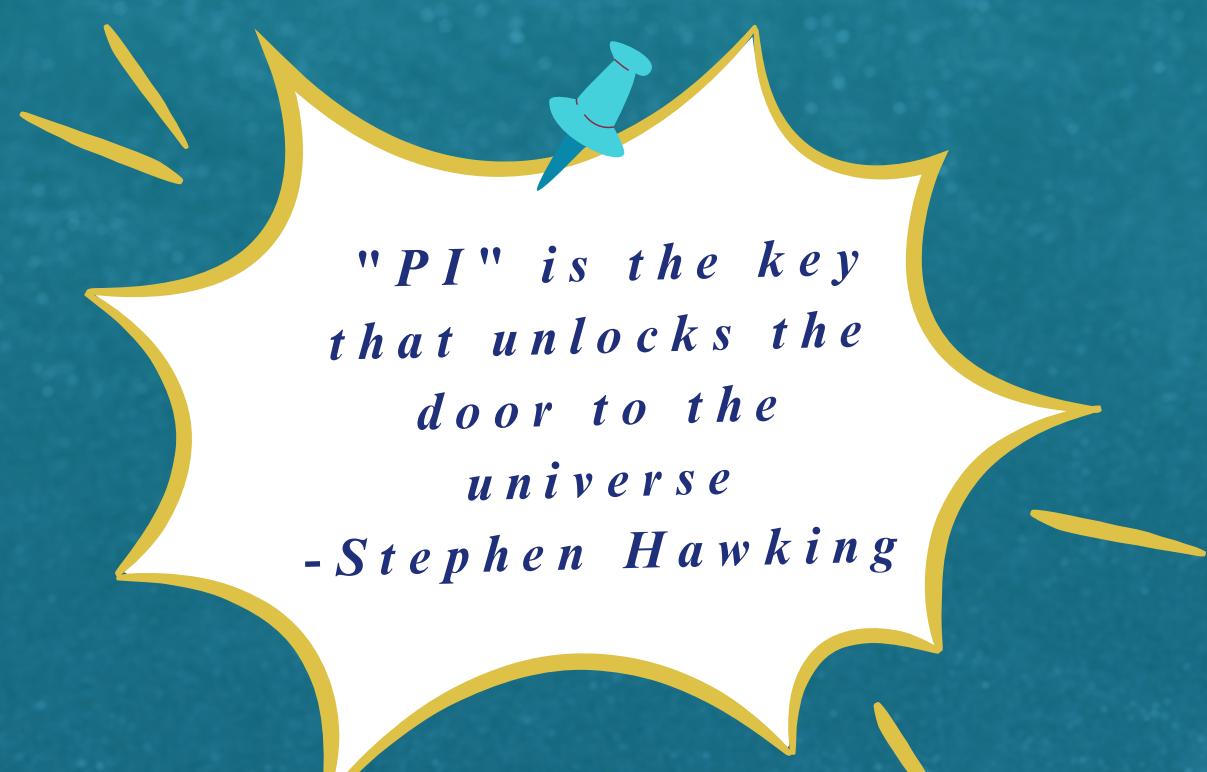


THE SECRETS OF PI

Welcome to the intriguing world of pi (π), a mathematical constant that unlocks a wealth of educational opportunities. The unknowns of pi are revealed in this educational poster, which reveals its interesting history, unique qualities and practical applications. From ancient civilizations to modern classrooms, Pi has remained a cornerstone of mathematical research, assisting students in discovering the hidden beauty and profound relationships within the universe of numbers.

Pi is not a notion that was developed or invented by humans. It is an enduring, fundamental mathematical constant that is inherent in the design of circles and other curved forms. Pi was discovered when humans began to study the characteristics of circles and understood how a circle's diameter and circumference relate to one another. It was observed that this relationship remains constant for circles of any size by observation and mathematical inference.



EXPLORING THE PRACTICAL APPLICATIONS OF PI

Ancient Origins and Early Approximations

The ancient Egyptians, who are renowned for their achievements of engineering and architecture, determined that pi was around 3.16. Their exact building of circular constructions, like the Great Pyramid of Giza, showed their mastery of pi.



Pi's applications keep growing in fields like engineering, computer graphics, telecommunications, music, and cryptography, reinforcing its fundamental significance in many different fields and demonstrating its applicability in our rapidly changing technological environment. In essence, the mathematical constant pi is an indispensable element that greatly enhances people's lives across a multitude of domains and applications.



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DID YOU KNOW?

- Pi Day is celebrated on March 14th (3/14) around the world. The date is chosen because the numerical representation of pi, 3.14 .
- Pi is an irrational number, meaning it cannot be expressed as a finite fraction or a repeating decimal.
- Pi appears in various natural phenomena such as it can be observed in the spiral arrangement of sunflower seeds and the shape of waves.
- The Guinness World Record for reciting the most decimal places of pi is held by Rajveer Meena of India, who recited 50,000 decimal places in 2020.



Middle Ages

The understanding of pi that was passed down from ancient civilizations was elaborated upon in the Middle Ages by intellectuals like Fibonacci and Al-Khwarizmi. Their contributions in mathematics and trigonometry enabled for greater research of the uses of pi in other domains.



Modernity and technological progress

Modern security systems rely on cryptography, which uses the difficulty of pi's decimal expansion to enable safe encryption and decryption procedures. Pi is important in data visualization methods like polar coordinates and circular graphs, allowing data to be represented in two dimensions, making it easier to analyze and comprehend large datasets.

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