

PYTHAGORAS

THE GREAT GREEK MATHEMATICIAN
AND PHILOSOPHER

“Pythagoras
believed numbers
help us understand
the world.”

ABOUT PYTHAGORAS



Pythagoras was born on the island of Samos, around 570 BCE.



Ancient writers say he travelled to places including Egypt and perhaps Babylon to learn from other cultures.



He founded a school and a community in Croton, southern Italy.



His school taught not only maths, but also music, friendship and living a good life.

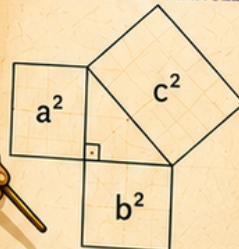


He believed that numbers are the key to understanding the world.



Many of his ideas influenced mathematics, science, music and philosophy for thousands of years.

RIGHT-ANGLED TRIANGLE



The square on the longest side (c) is equal to the sum of the squares on the other two sides (a^2 and b^2).

KEY IDEAS



THE PYTHAGOREAN THEOREM

In a right-angled triangle, the square of the longest side (c) equals the sum of the squares of the other two sides (a and b).



THE POWER OF NUMBERS

He and his followers studied patterns in numbers, including odd and even numbers, and triangular numbers.



MUSIC & HARMONY

He showed that pleasing music is based on simple number ratios between string lengths.



SHAPES & GEOMETRY

He studied shapes, angles and figures and showed how maths can explain the natural world.



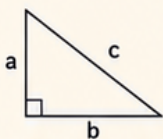
LIVING WELL

He taught that self-control, kindness, respect and learning are the foundation of a good and happy life.

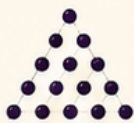
PYTHAGORAS' MESSAGE

Learn, think, be calm,
and live in harmony.

HIS LEGACY



His theorem is used in maths, engineering and everyday life around the world.



His number patterns are the basis of many important ideas in mathematics.



His work on music influenced how people understand harmony and sound.



His ideas helped people use maths to explore, measure and understand the world.



His school was one of the earliest places where people learned maths and philosophy.



His wisdom continues to teach us how to think, learn and live better lives.

NUMBERS • HARMONY • WISDOM