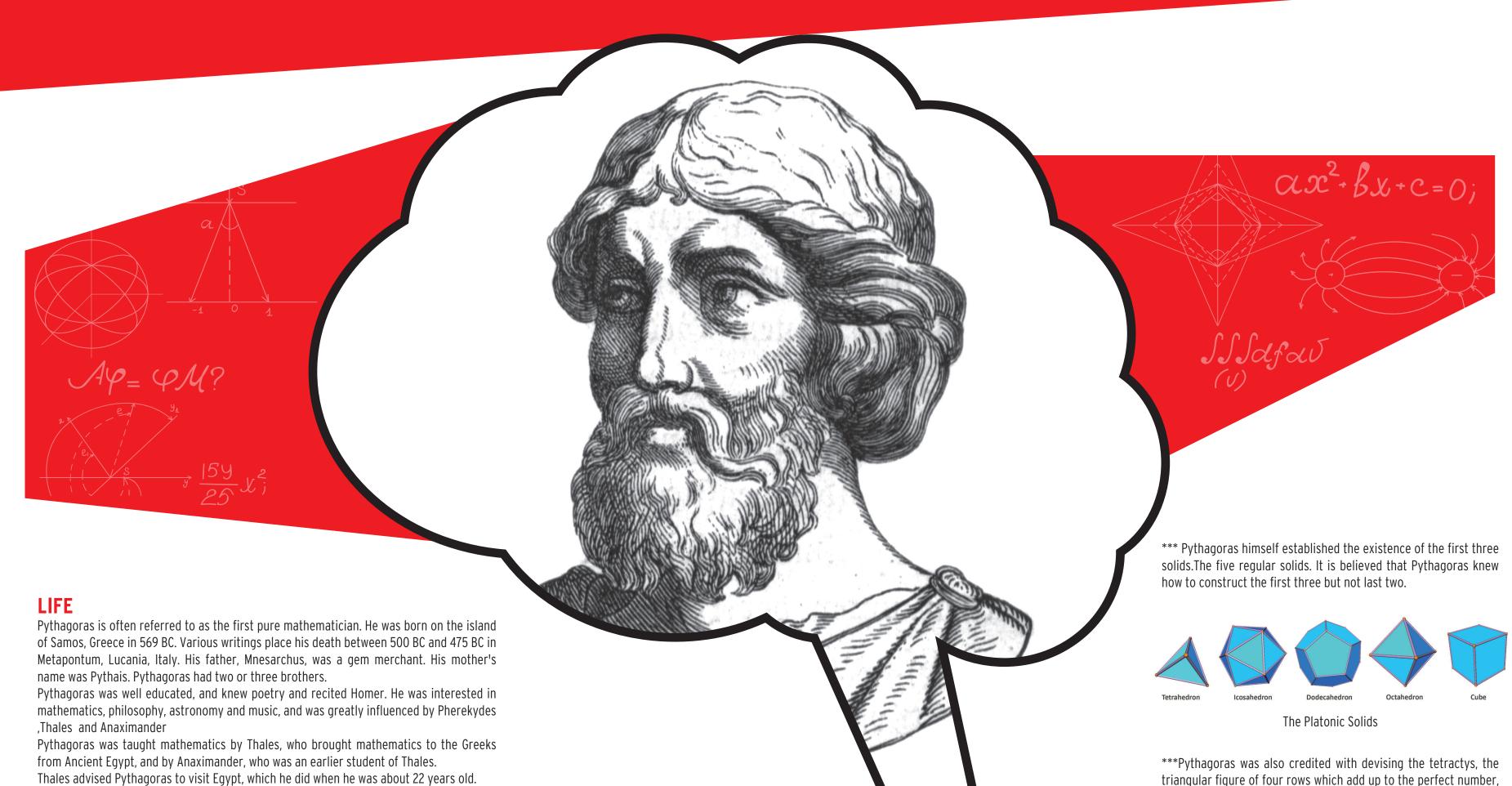
ANATOLIA "THE LAND WHERE SCIENCE WAS BORN AND FLOURISHED"

 $Vab = 1 \ge (K+r) - \ge E$



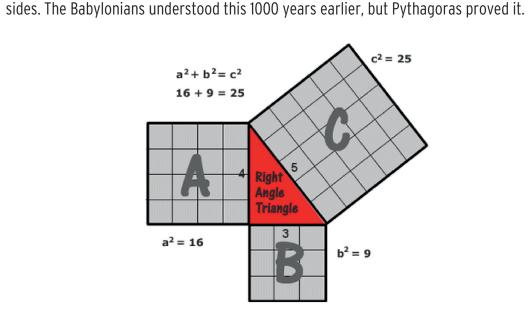
PYTHAGORAS

Born & Died: C. 570 - C. 475BC

Main Interest: Metaphysics, Mathematics, Musics, Astronomy

School: Pythogoreanism

Notable Ideas: Pythagorean Theorem, Pythogorean Tuning, Golden Ratio, Musica universalis, Metempsychosis



Pythagoras must have liked Egypt. He lived there for about the next 22 years of his life, mas-

tering mathematical ideas AND spiritual ideas. Pythagoras didn't leave Egypt willingly. He

was caught up in a Persian invasion and taken as a prisoner to Babylon. Aged 56 or so, Pythagoras was finally set free. He returned to Samos, his birthplace. There he began teaching people his philosophy of life, which was based on a mixture of his own ideas, mathematics, and mysticism from Ancient Egypt and the East. He moved to the city of Croton, then

There his ideas fell on more fertile soil and he established the Pythagoreans. Pythagoras is

In mathematics, the Pythagorean theorem, also known as Pythagoras's theorem, is a fundamental relation in Euclidean geometry. The theorem of Pythagoras - for a right-angled

triangle the square on the hypotenuse is equal to the sum of the squares on the other two

part of Ancient Greece, now in Southern Italy.

WORKS

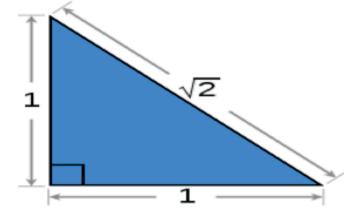
Maths

***Pythagorean theorem:

thought to have died at the age of about 75 years, in about 495 BC.

***Constructing figures of a given area and geometrical algebra. For example they solved various equations by geometrical means.

***The discovery of irrational numbers is attributed to the Pythagoreans, but seems unlikely to have been the idea of Pythagoras because it does not align with his philosophy the all things are numbers, since number to him meant the ratio of two whole numbers.



Pythagoras's theorem produces irrational numbers.

***The sum of the angles of a triangle is equal to two right angles.

***Pythagoras taught that Earth was a sphere in the center of the Kosmos ,that the planets, stars, and the universe were spherical because the sphere was the most perfect solid figure. He also taught that the paths of the planets were circular. Pythagoras recognized that the morning star was the same as the evening star, Venus

The Tetractys - a perfect Pythagorean symbol, both mathematical

and mystical.

10

ten. As a mystical symbol, it was very important to the worship of

the Pythagoreans who would swear oaths by it.

* **He would have discovered that musical notes are indeed ruled by whole number ratios.

Astronomy

 $C = I_m \sin[\omega t + \frac{\omega}{2}]$

* **Pythagoras was the first person known to have taught the earth was spherical, with antipodes and that it revolved around the sun * **Pythagoras appears to have believed Earth was at the center of the universe.

KORKMAZ YIGIT ANATOLIAN HIGH SCHOOL Physics Teacher: HATICE KIRMACI

