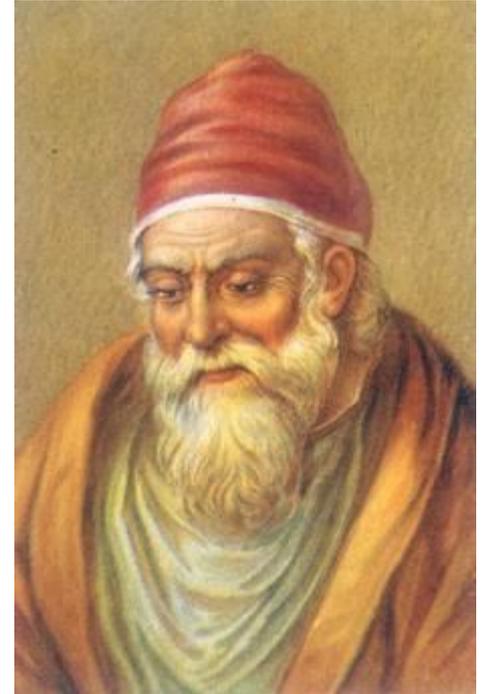# Euclid

By Jake S

Personal life

No one knows exactly when Euclid lived

From the book Elements that he wrote, historians know that he lived in Alexandria in Egypt around 300 BC

He lived during the time of the first Ptolemy (He was the pharaoh of Egypt)

He is the son of Naucrates and grandson of Zenarchus.

Euclid's books

Euclid was very humble and cared about teaching his students.

He wrote a geometry book called Elements

His book taught geometry so well for hundreds of years that other books did not survive

He was mostly the editor and compiler of the Elements information

He organized information so well people support his importance to math

He also wrote Surface Loci, Prisms, Conics and Pseudaria but they are not around anymore.
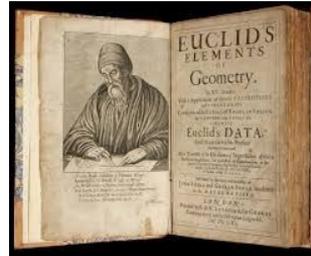
Euclid's Elements

Euclid collected and organized the math and geometry information and put it into one book called Elements

He explained geometry in a way that was a better way to understand geometry, proportion and number theory.

Euclid discovered how to teach other people concepts in a reasonable order

He starts with rules of geometry and gives definitions and used logic to prove theorems

He arranged theorems using 5 axioms to prove the rules.

Euclid's Elements

The first printed edition of Elements was in 1482 by Erhard Ratold

The first english translation of elements was in 1570 by Sir Henry Bellingsley.

Euclid and geometry

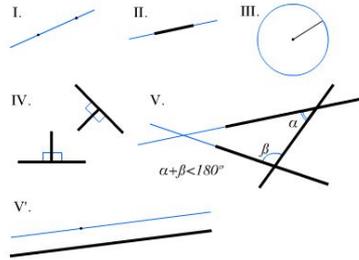Euclid systematized Theatetus' and Eudoxus' previous work.

Elements teaches geometry, proportion and number theory.

Shapes must be drawn with a ruler and compass.

Euclid and geometry

Euclid arranged theorems using 5 axioms to prove rules in geometry.

Euclid thought the third goal of Elements was to construct platonic figures which are 3D polyhedron with each face that is the same regular shape.

Sources

http://farside.ph.utexas.edu/Books/Euclid/Elements

https://mathcs.clarku.edu/~djoyce/java/elements/elements

https://worddisk.com/wiki/Euclid/

https://archive.org/details/historyofgreekrma01heat/page/n11/mode/2up (pg. 354-357; pg. 365-369)