

Solve Like an Egyptian

TEST TEST

We have seen how the ancient Egyptians worked through basic arithmetic problems. Our next question should then be: what kinds of problems did they solve? Generally, the ancient Egyptians are known for solving practical, every-day problems that had to do with administering their large empire. Scribes would solve geometry and arithmetic problems as part of their jobs, and other people in the empire would generally not know or use such mathematics. Scribes were trained in scribal schools, where they learned mathematics. The best examples we have come from papyrus rolls which have been preserved and translated. Our goal for the readings below is to understand some examples of how the ancient Egyptians solved arithmetic and geometric problems.

Readings

First Reading: Mathematics Problems from Ancient Egyptian Papyri

Second Reading: Mathematics in Egyptian Papyri

Third Reading: The Moscow Papyrus

Fourth Reading: Summary of Egyptian Mathematics

Questions

Question 1 What was the Egyptian value for π ?

3.1605

given

Question 2 What is the first step in the Method of False Position?

Learning outcomes:

Author(s):

See Mathematics Problems from Ancient Egyptian Papyri at <http://www.jstor.org.proxy.lib.ohio-state.edu/stable/20876630>

See Mathematics in Egyptian Papyri at http://www-history.mcs.st-and.ac.uk/HistTopics/Egyptian_papyri.html

See The Moscow Papyrus at <http://www.math.tamu.edu/~don.allen/history/egypt/node4.html>

See Summary of Egyptian Mathematics at <http://www.math.tamu.edu/~don.allen/history/egypt/node5.html>

Multiple Choice:

- (a) *Moving everything to one side of the equals sign.*
- (b) *Labeling a variable.*
- (c) *Guessing. ✓*
- (d) *Doubling numbers using a chart.*

Question 3 *What are the most important points of this reading?*

Free Response: