

Ancient Egyptian Mathematics Lesson 1: Numbers



Ancient Egyptian Mathematics Lesson 1: Numbers

Ancient Egyptian math encourages creativity and draws upon your insight as a scribe

Problems are approached not just by mechanically hashing out the arithmetic but considering really what you are trying to solve

Rhind Papyrus

Representing Numbers

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First Idea:

Think of some ways we could improve our representation and throw something out in the chat!

Potential Solution 1: Grouping

Representing Numbers

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Our number system is positional

In the number 535, the first 5 has a value a hundred times greater than the second 5

 $535 = 5 \times 100 + 3 \times 10 + 5 \times 1$

The Egyptian number system is repetitional

is always the same value (seven), no matter what is written before or after

Representing Numbers

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We need some more symbols to represent larger Egyptian numbers using repetition

> 1 w^c **10** *mdw* **100** *št* 1,000 h3 10,000 dbs 100,000 hfn

1,000,000 hh

zh3w Practice Now it is your turn to be a scribe! Sketch out these Egyptian numbers on your ostraca tablets (Zoom chat): 4 $\cap \cap \cap$ 31 11999911 2,303 Ann Iscu 152,123 2,010

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10 *mdw*

100 *št*

1,000,000 hh

1,000 h3

10,000 <u>db</u>^c

100,000 hfn

1 w

zh3w Practice

We will now practice adding Egyptian numbers. Write out the sum using Egyptian numerals and share your answer in chat with our number system

 \square ATE ANESII AANTIII What is one similarity the Egyptian number system has with our system? Which do you think is more efficient and which is more intuitive? 1.000.000 hh

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10 *mdw*

100 št

1,000 h3

10,000 db^c

100,000 hfn

1 w

9

Egyptian Board Game Senet

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zn.t Game of Passing

Pieces are moved snakewise around the board with 30 tiles, the first player to get all their pieces off wins!

Counting is a significant aspect of modeling the progression of an individual through the trials and obstacles on the path to afterlife