

# 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

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# **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<sup>c</sup> **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><sup>c</sup>

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<sup>c</sup>

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