

## TC2 MAZII: History of Mathematics

- This course is not about
  - 1- History as history course.
  - 2- Math as math course.
- This course is about :-
  - 1- The role of Mathematics in building the civilization in the past, present, and the future.

Question :- Why do we need to study the history of Mathematics?

Answer :-

- 1- Study the origin of mathem. and did the ideas developed.
- 2- ~~to~~ know the usefulness (application) of Mathematics.
  - To link it to our daily
  - To answer Student's Quest
  - To feel the appreciation
- 3- It is important Subject.
- 4- It measures the development of nation.

---

This course will be divided into two

Part 1 :-

Study the role of Mathematics the ancient civilization.

• Part 2 :- <sup>Midterm 1</sup>

Ans :-

# Chapter 18: Egyptian Mathematics

## § 1 - Introduction to Egyptian Civilization

Time: 7000-2000 B.C.

Location: "United Kingdom", 3000 B.C.



Economy: Agriculture.

• Scribes used the numbers to count the goods for the pharaoh

• Font → hieroglyphic } disappear after Roman Empire  
 → hieratic }

## § 2 - Hieroglyphic Numerals

Symbols: | ∩ ? ↯ ▽

Value: | 10 100 1000 10000

### Exercise 1:

9 IIIII  
 452 ????  
 32 III  
 32716

### Exercise 2:

III III ∩, III ∩ III, III ? III III  
 10045, 213, 228

## Fractions: (only unit fraction $\frac{1}{n}$ )

Value:  $\frac{1}{n}$   $\frac{2}{3}$   $\frac{1}{n}$

Symbols Symbol of n and  $\odot$  above it "Eye of Horus"

### Exercise:

$\frac{1}{3}$ ,  $\frac{1}{76}$ ,  $\frac{1}{100}$ ,  $\frac{1}{899}$ ,  $\frac{1}{67}$

### Research Project: