# Lecture 2: Quiz

Name:

## Problem 1



| YBC 7289 | | Plympton 322 | |
|---|---|---|---|
| Bakshali Manuscript | | Rynd papyrus | |

This document is the

## Problem 2

On which base was the **Mayan number system** based?

| 6 | | 20 | |
|---|---|---|---|
| 10 | | 60 | |
| 12 | | 100 | |

## Problem 3

Which integer does this **hieroglyph** represent? Remember: priest,frog,finger,flower,monkey,arc.



## Problem 4

Number systems are ordered $N \subset Z \subset\subset Q.....$ The integers $Z$ has the natural numbers $N$ just below and the rational numbers $Q$ just above. Which number system is just below the algebraic numbers and which is the next above?

| complex numbers | | integers | |
|---|---|---|---|
| rational numbers | | real numbers | |
| natural numbers | | algebraic numbers | |

## Problem 5

Which of the following numbers are known to be irrational?

| $\pi$ | | $1/\sqrt{4}$ | |
|---|---|---|---|
| $e$ | | $1/\sqrt{5}$ | |
| $\sqrt{2}$ | | $\log_{10}(5)$ | |

## Problem 6

Where was zero invented?

| In Mexico | | In Rome | |
|---|---|---|---|
| In China | | In Irak | |
| In Egypt | | In Greece | |
| In India | | In Congo | |

## Problem 7

In which time period do the Clay tablets in Mesopotamia belong?

| $2000BC$ | | $4000BC$ | |
|---|---|---|---|
| $2000AC$ | | $1000AC$ | |

## Problem 8

Why do we **extend** a number system and make it larger?

| Solving equations | |
|---|---|
| To compute with large numbers | |
| To allow more operations to have results | |