








TRANSPARENCY MASTERS

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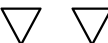


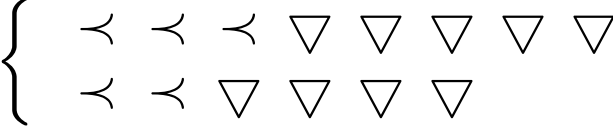


NUMERATION SYSTEMS

Egyptian Hieroglyphic Numerals

<i>Decimal Numeral</i>	<i>Egyptian Numeral</i>	<i>Descriptive Name</i>
1		Stroke
10		Heel bone
100		Scroll
1,000		Lotus flower
10,000		Pointing finger
100,000		Polliwog
1,000,000		Astonished man

Babylonian Cuneiform Numerals

<i>Decimal Numeral</i>	<i>Babylonian Numeral</i>
1	
2	
9	
10	
59	

DO **YOU** COUNT?

How many?



- a. Hindu-Arabic
- b. Egyptian
- c. Babylonian
- d. Roman

PLACE VALUE PLEASE!

Place-value chart

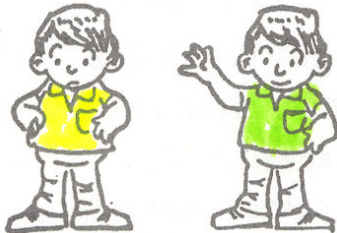
<i>Base</i>	<i>Place value</i>					
two	2^5	2^4	2^3	2^2	2^1	$2^0 = 1$
three	3^5	3^4	3^3	3^2	3^1	$3^0 = 1$
four	4^5	4^4	4^3	4^2	4^1	$4^0 = 1$
five	5^5	5^4	5^3	5^2	5^1	$5^0 = 1$
eight	8^5	8^4	8^3	8^2	8^1	$8^0 = 1$
ten	10^5	10^4	10^3	10^2	10^1	$10^0 = 1$
twelve	12^5	12^4	12^3	12^2	12^1	$12^0 = 1$

A HUMAN COMPUTER

Two States

OFF

ON

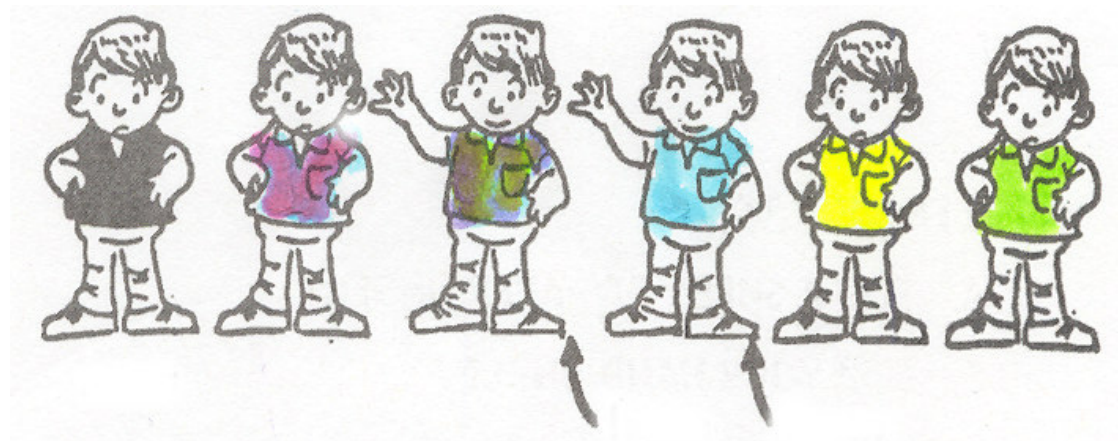


Switching State



COUNTER: 001100_{two}

OVERFLOW



IMPULSE IMPULSE

ADD: 111_{two}

OVERFLOW



IMPULSE IMPULSE IMPULSE

THE VANISHING LEPRECHAUN

