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THE NATURAL NUMBERS

N

0, 1, 2, 3, 4. . .

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REMEMBER

0				
zero				
1	2	3	4	5
one	two	three	four	five
6	7	8	9	10
six	seven	eight	nine	ten

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30	Thirty
40	Forty
50	Fifty
60	Sixty
70	Seventy
80	Eighty
90	Ninety
100	A Hundred
1 000	A Thousand
1 000 000	A Million
1 000 000 000	A Billion

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Operations

» 5 + 3 Five **plus** three

» 8 – 3 Eight **minus** three

» 6 x 2 Six **times** two

» 15 / 3 Fifteen **divided by** three

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Comparisons

» 7 > 5 Seven is **greater** than five

» 5 < 7 Five is **less** than seven

» 3 = 3 Three is **equal to** three

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1.- EVOLUTION OF NUMBERS

- The numbers appeared due to the necessity of counting.
- Primitive societies created symbols to express quantities like how many animals they had hunted. They made marks on bones and on stones.
- The **Egyptians** used these symbols:

ONE TEN A HUNDRED A THOUSAND

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What quantity is written on the stone?

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.

Are you sure that you are right?

Yes, you are. The quantity is 1,435

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As you know, **The Romans** used this letters:

I	**V**	**X**	**L**
One	Five	Ten	Fifty

C	**D**	**M**
A Hundred	Five Hundred	A Thousand

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What quantities are written?

a) MVI

b) CXLII

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What quantities are written?

a) MVI 1 006

b) CXLII 142

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a) M = 1000
V = 5
I = 1
MVI = 1006

b) C = 100
X = 10
L = 50
I I = 2
CXLII = 142

Note: Remember to subtract when the smaller number is on the left.

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1.- THE NATURAL NUMBER SET

The Natural Number Set is represented with the letter N

N = { 0, 1, 2, 3, ... }

Operations

1. Addition

   2314 + 25 = ?

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2	3	1	4
+		2	5
2	3	3	9

Remember when writing:

* Unities under unities
* Ten unities under ten unities
* Hundred under hundred

	H	TU	U
T	H	TU	U
T	H	TU	U

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2. Subtraction:

	9	3	4
-		2	5
	9	0	9

Remember when writing:

* Unities under unities
* Ten unities under ten unities
* Hundred under hundred

	H	TU	U
-	H	TU	U
	H	TU	U

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3. Multiplication:

	3	5	4
x		2	6
2	1	2	4
7	0	8	
9	2	0	4

<u>Remember when writing</u>:

*** Unities under unities**

*** Ten unities under ten unities**

*** Hundred under hundred**

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4. Division:

$$\begin{array}{r|l} 726 & 23 \\ \hline 2\,6 & 31 \\ 3 & \end{array}$$

<u>Remember</u>:

Dividend = 726

Divisor = 23

Quotient = 31

Remainder = 3

Dividend = Divisor x Quotient + Remainder

726 = 23 x 31 + 3

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Operations hierarchy

1st. First, solve the parenthesis

2nd. After that, solve the multiplication and division operations.

3rd. Finally, solve the addition and the subtraction operations.

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» Example:

32 – 3 * (7 + 6 : 3) =

32 - 3 * (7 + 2) =

32 – 3 * 9 =

32 – 27 =

5