Chapter- 5

Place Value and Face Value

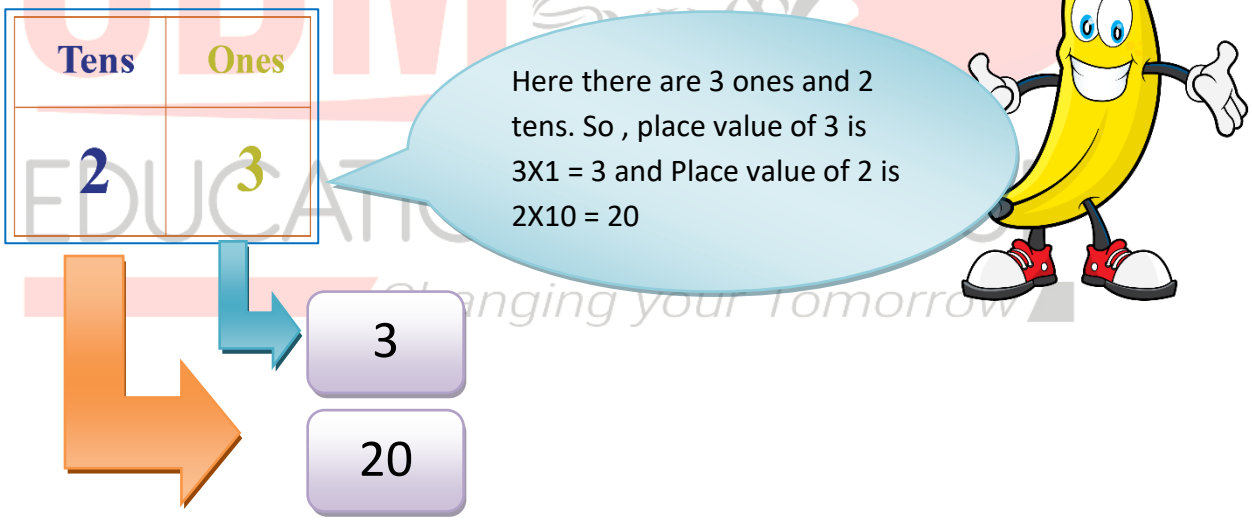
STUDY NOTES

- Place value
- Face value
- Abacus
- Expanded form
- Compact form.

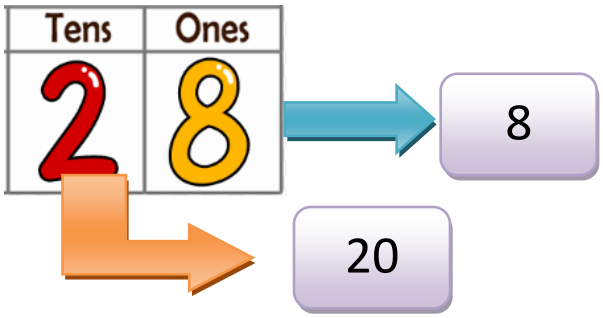
Place Value

Place value is the **value** of each digit in a number. For example, the 5 in 53 represents 5 tens, or 50; however, the 35 represents 5 ones, or 5.

Example: Let us consider the number 23.



Example: Place value of 2 and 8 in 28.



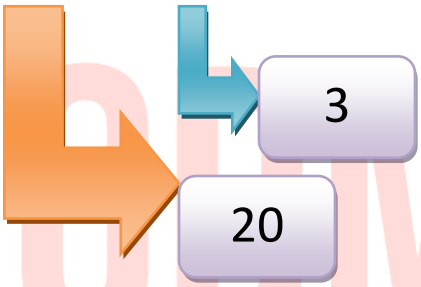
Face Value

The face value of a digit in a number is the digit itself. It is not determined by its position in the number.

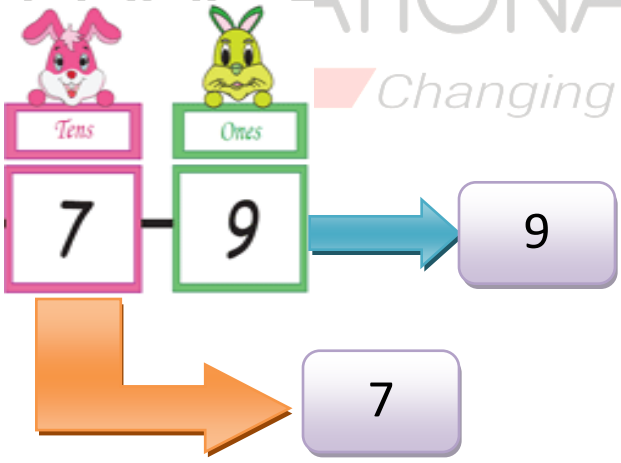
Example: Let us consider 23 again.

Tens	Ones
2	3

Here the face value of 3 ones is 3 and the face value of 2 tens is 2 not 20.



Example: Face value of 7 and 9 in 79.



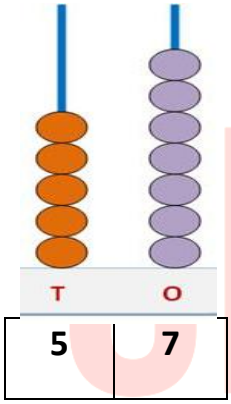
Place Value Using Abacus

An abacus has spikes that represent places of digits in a given number. Spikes are named from right to left as **O, T, H,** and so on. **O** stands for ones, T stands for tens and H stands for Hundreds.

The place value of a digit at tens place = the digit X 10.

The place value of a digit at ones place = the digit X 1.

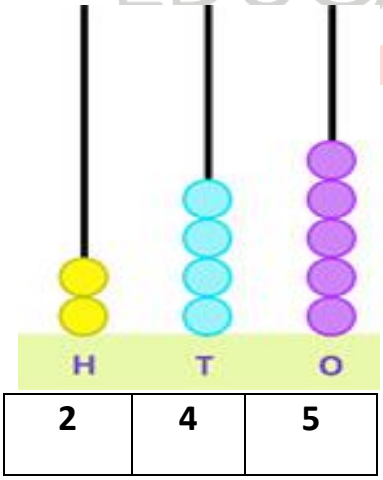
Example: Consider number 57



5 is in tens place, so the value of 5 is 5 X 10 = 50

7 is in ones place , so the value of 7 is 7 X 1 = 7

Example: Consider number 245



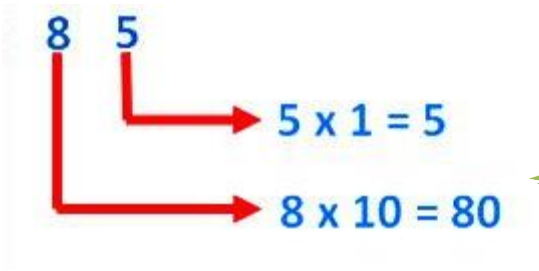
2 is in hundreds place ,so the value of 2 is 2 X 100 = 200

4 is in tens place, so the value of 4 is 4 X 10 = 40

Numbers in Expanded Form

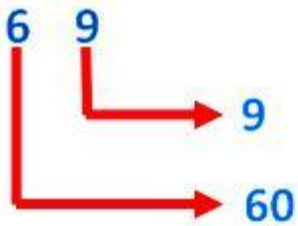
The expanded form of a number can be obtained by breaking and showing the value of each digit in the number.

Example: Write the expanded form of 85



Expanded form of number 85 = 80 + 5

Example: Write the expanded form of 69

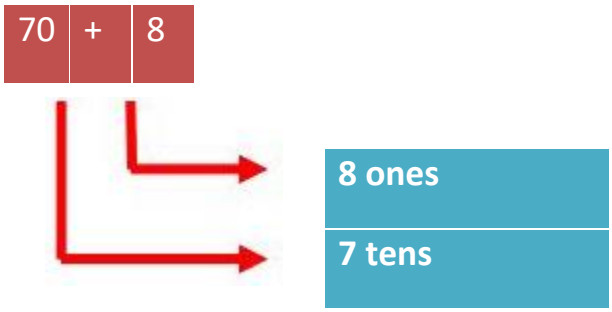


Expanded form of number 69 = 60 + 9

Numbers in Compact form

The compact form of a number is written using the digits 0-9 according to their place value. We can also say it as a short form.

Example: Write 70 + 8 in Compact form.



Compact form of 70 + 8 = 78

Example: Write 30 + 0 in Compact Form.

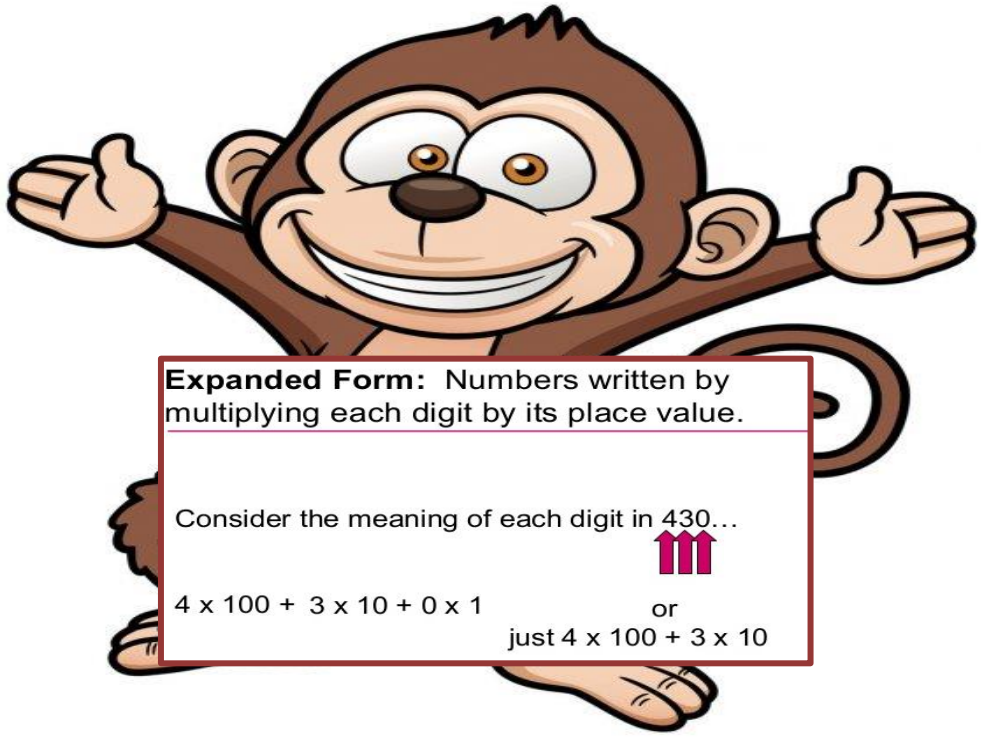
30 + 0

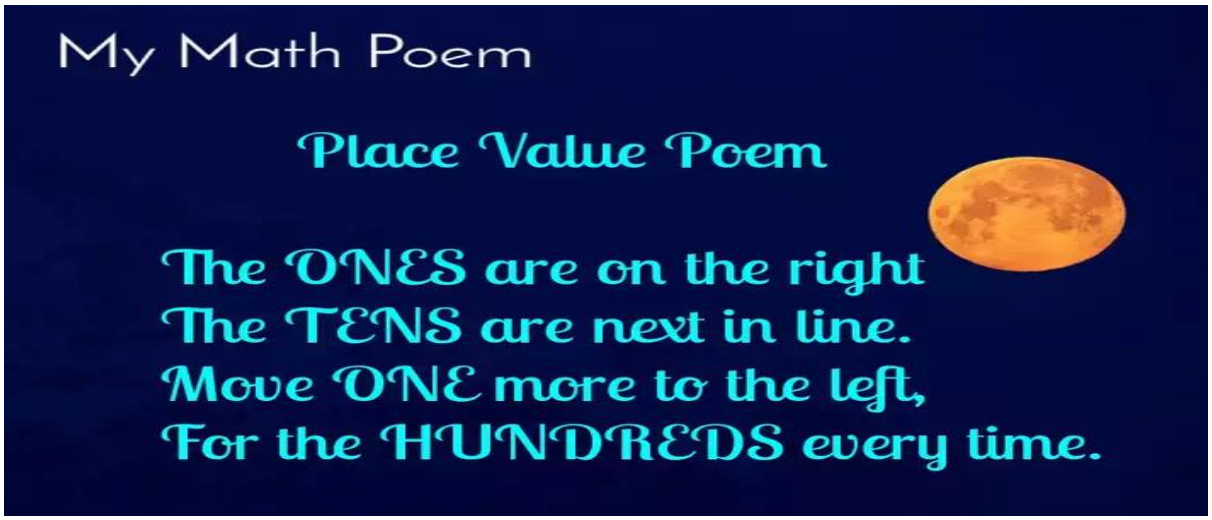
0 one

3 tens

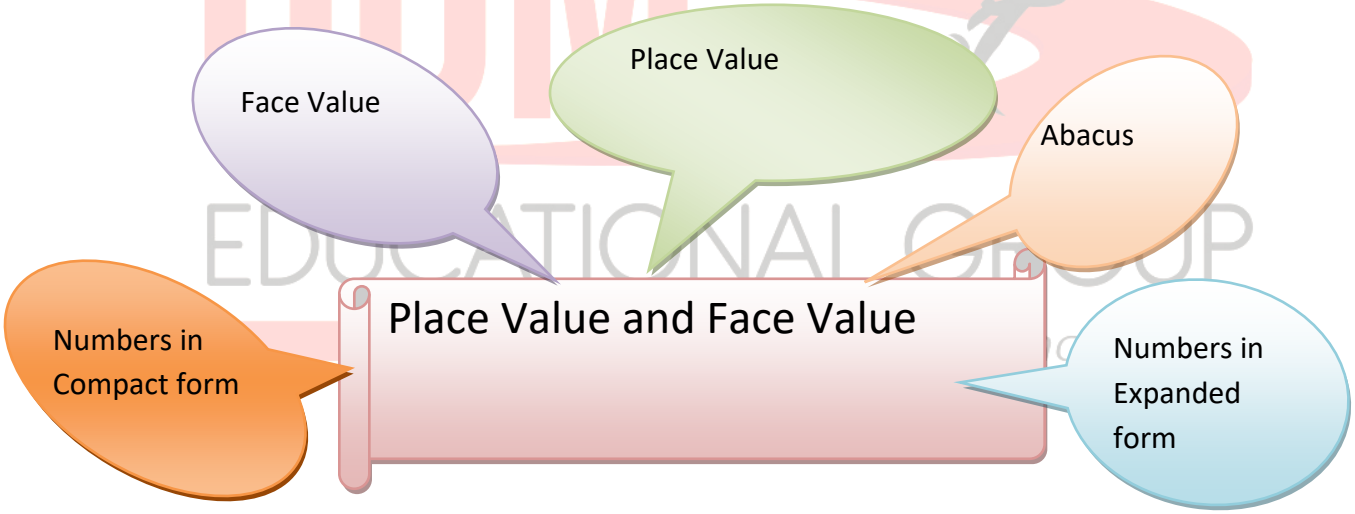
Compact form of 30 + 0 = 30

Facts of expanded form




My Math Poem
Place Value Poem
The ONES are on the right
The TENS are next in line.
Move ONE more to the left,
For the HUNDREDS every time.

MIND MAP


Face Value
Place Value
Abacus
Place Value and Face Value
Numbers in Compact form
Numbers in Expanded form