Expanded Form

Definition: **The sum of the place values of all the digits in a number gives it expanded form.**

We know that 36 = 3 tens + 6 ones = 30 + 6.

Then, 30 + 6 is called the expanded form of the number 36. Also, 36 is the ordinary or compact form of the number '**thirty six'**.

Similarly, 85 = 8 tens + 5 ones

80 + 5

Thus, the expanded form of the number 85 is 80 + 5.

85 is the ordinary or compact from of the number '**eighty five'**.

T	O
8	5

Example: Write expanded form of the following numbers:

(a) 364

(b) 798

(c) 675

Solution:

(a) 364 = 3 hundreds + 6 tens + 4 ones

364 = 3 × 100 + 6 × 10 + 4 × 1

= 300 + 60 + 4

H	T	O
3	6	4

❖ Expanded form of 364

Expanded Form

(b) 798 = 7 hundreds + 9 tens + 8 ones

798 = 7 × 100 + 9 × 10 + 8 × 1

= 700 + 90 + 8

H	T	O
7	9	8

❖ Expanded form of 798

(c) 675 = 6 hundreds + 7 tens + 5 ones

675 = 6 × 100 + 7 × 10 + 5 × 1

= 600 + 70 + 5

H	T	O
6	7	5

❖ Expanded form of 675