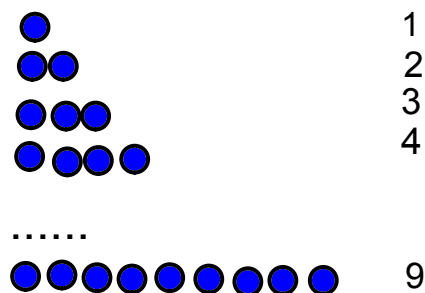1. Base 10

Why do we call it base 10? Because we have 10 different digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Those are the ONLY digits we have. This means using just each of the digits once, we can only count up to the number 9.

●   1
●●   2
●●●   3
●●●●   4
......
●●●●●●●●●   9

Once we get past that, we have to start grouping our numbers, and use the concept of PLACE VALUE.

Place value means that the VALUE of a digit is determined by its PLACE in the number. For instance, in base 10, the value of each place increases by a factor of 10 as we move to the left.

1 2 3 , 4 5 6 , 7 8 9

1 — hundred mill
2 — ten millions
3 — millions
4 — hundred thou
5 — ten thousand
6 — thousands
7 — hundreds
8 — tens
9 — ones