

Number Base Counting

Just for comparison, this is a list of the natural numbers in four different bases – Decimal, Binary, Octal, and Hexadecimal. Notice that in all bases, “10” represents the base number.

<u>Words</u>	<u>Decimal</u>	<u>Binary</u>	<u>Octal</u>	<u>Hexadecimal</u>
One	1	1	1	1
Two	2	<u>10</u>	2	2
Three	3	11	3	3
Four	4	100	4	4
Five	5	101	5	5
Six	6	110	6	6
Seven	7	111	7	7
Eight	8	1000	<u>10</u>	8
Nine	9	1001	11	9
Ten	<u>10</u>	1010	12	A
Eleven	11	1011	13	B
Twelve	12	1100	14	C
Thirteen	13	1101	15	D
Fourteen	14	1110	16	E
Fifteen	15	1111	17	F
Sixteen	16	10000	20	<u>10</u>
Seventeen	17	10001	21	11
Eighteen	18	10010	22	12
Nineteen	19	10011	23	13
Twenty	20	10100	24	14
Twenty-one	21	10101	25	15
Twenty-two	22	10110	26	16
Twenty-three	23	10111	27	17
Twenty-four	24	11000	30	18
Twenty-five	25	11001	31	19
Twenty-six	26	11010	32	1A
Twenty-seven	27	11011	33	1B
Twenty-eight	28	11100	34	1C
Twenty-nine	29	11101	35	1D
Thirty	30	11110	36	1E
Thirty- one	31	11111	37	1F
Thirty- two	32	100000	40	20
Thirty- three	33	100001	41	21
Thirty-four	34	100010	42	22
Thirty-five	35	100011	43	23
Thirty-six	36	100100	44	24
Thirty-seven	37	100101	45	25
Thirty-eight	38	100110	46	26
Thirty-nine	39	100111	47	27
Forty	40	101000	50	28
Forty-one	41	101001	51	29
Forty-two	42	101010	52	2A