

# Number Bases Tables

## Base-Eight Times Table

	0	1	2	3	4	5	6	7
0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7
2	0	2	4	6	10	12	14	16
3	0	3	6	11	14	17	22	25
4	0	4	10	14	20	24	30	34
5	0	5	12	17	24	31	36	43
6	0	6	14	22	30	36	44	52
7	0	7	16	25	34	43	52	61

## Base-Five Times Table

	0	1	2	3	4
0	0	0	0	0	0
1	0	1	2	3	4
2	0	2	4	11	13
3	0	3	11	14	22
4	0	4	13	22	31

## Base-Two Table

	0	1
0	0	0
1	0	1

## Base-Sixteen Times Table

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
2	0	2	4	6	8	A	C	E	10	12	14	16	18	1A	1C	1E
3	0	3	6	9	C	F	12	15	18	1B	1E	21	24	27	2A	2D
4	0	4	8	C	10	14	18	1C	20	24	28	2C	30	34	38	3C
5	0	5	A	F	14	19	1E	23	28	2D	32	37	3C	41	46	4B
6	0	6	C	12	18	1E	24	2A	30	36	3C	42	48	4E	54	5A
7	0	7	E	15	1C	23	2A	31	38	3F	46	4D	54	5B	62	69
8	0	8	10	18	20	28	30	38	40	48	50	58	60	68	70	78
9	0	9	12	1B	24	2D	36	3F	48	51	5A	63	6C	75	7E	87
A	0	A	14	1E	28	32	3C	46	50	5A	64	6E	78	82	8C	96
B	0	B	16	21	2C	37	42	4D	58	63	6E	79	84	8F	9A	A5
C	0	C	18	24	30	3C	48	54	60	6C	78	84	90	9C	A8	B4
D	0	D	1A	27	34	41	4E	5B	68	75	82	8F	9C	A9	B6	C3
E	0	E	1C	2A	38	46	54	62	70	7E	8C	9A	A8	B6	C4	D2
F	0	F	1E	2D	3C	4B	5A	69	78	87	96	A5	B4	C3	D2	E1

## Place Value (exponent) Table

10	9	8	7	6	5	4	3	2	1	0	
1024	512	256	128	64	32	16	8	4	2	1	<b>2</b>
					3125	625	125	25	5	1	<b>5</b>
					32768	4096	512	64	8	1	<b>8</b>
					100000	10000	1000	100	10	1	<b>10</b>
						65536	4096	256	16	1	<b>16</b>

**B  
A  
S  
E**

# ASCII Code Table

Note: All codes are given in hexadecimal. Each hexadecimal digit can easily be converted to binary by using the table at the bottom of the page. For example, the character "n" has an ASCII hexadecimal code 6E.

Looking at the bottom of the page, we see that 6 is 0110 and that E is 1110. Therefore, the binary ASCII code for "n" is 01101110. Note, also, that this table is incomplete. A full ASCII code table includes 256 codes, since there are 256 possible codes for one byte, which is an 8-digit binary code.

<u>Hex</u>	<u>Char</u>	<u>Hex</u>	<u>Char</u>	<u>Hex</u>	<u>Char</u>	<u>Hex</u>	<u>Char</u>	<u>Hex</u>	<u>Char</u>	<u>Hex</u>	<u>Char</u>
20	space	30	0	40	@	50	P	60	`	70	p
21	!	31	1	41	A	51	Q	61	a	71	q
22	"	32	2	42	B	52	R	62	b	72	r
23	#	33	3	43	C	53	S	63	c	73	s
24	\$	34	4	44	D	54	T	64	d	74	t
25	%	35	5	45	E	55	U	65	e	75	u
26	&	36	6	46	F	56	V	66	f	76	v
27	'	37	7	47	G	57	W	67	g	77	w
28	(	38	8	48	H	58	X	68	h	78	x
29	)	39	9	49	I	59	Y	69	i	79	y
2A	*	3A	:	4A	J	5A	Z	6A	j	7A	z
2B	+	3B	;	4B	K	5B	[	6B	k	7B	{
2C	,	3C	<	4C	L	5C	\	6C	l	7C	
2D	-	3D	=	4D	M	5D	]	6D	m	7D	}
2E	.	3E	>	4E	N	5E	^	6E	n	7E	~
2F	/	3F	?	4F	O	5F	_	6F	o	7F	del

## Binary/Hexadecimal Conversion Table

<u>Binary</u>	<u>Hexadecimal</u>	<u>Binary</u>	<u>Hexadecimal</u>
0000	0	1000	8
0001	1	1001	9
0010	2	1010	A
0011	3	1011	B
0100	4	1100	C
0101	5	1101	D
0110	6	1110	E
0111	7	1111	F