

Hex/Decimal Conversion

Hex	Binary	Decimal
0	0	0
1	1	1
2	10	2
3	11	3
4	100	4
5	101	5
6	110	6
7	111	7
8	1000	8
9	1001	9
A	1010	10
B	1011	11
C	1100	12
D	1101	13
E	1110	14
F	1111	15
14	10100	20
3F	111111	63

$$\begin{array}{r}
 8 A \\
 + B 8 \\
 \hline
 = 1 2
 \end{array}$$

$$\begin{array}{r}
 5 1 C \\
 - 3 F \\
 \hline
 = 2 D
 \end{array}$$

$$\begin{array}{r}
 F A \\
 \times C 3 \\
 \hline
 2 E E \\
 + B B 8 0 \\
 \hline
 = B E 6 E
 \end{array}$$

$3 \times A = 1E$; 1 carried to F
 $3 \times F = 2D$, + 1 = 2E
 $C \times A = 78$; 7 carried to F
 $C \times F = B4$, + 7 = BB

$$\begin{array}{r}
 D E F \\
 12 \overline{) F A C E} \\
 \underline{E A} \\
 10 C \\
 \underline{F C} \\
 10 E \\
 \underline{10 E} \\
 0
 \end{array}$$

$12 \times D = EA$
 $FA - EA = 10$
 $12 \times E = 10C$
 $10C - FC = 10$
 $12 \times F = 10E$

Hexadecimal Multiplication Table

x	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	10
1	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	10
2	2	4	6	8	A	C	E	10	12	14	16	18	1A	1C	1E	20
3	3	6	9	C	F	12	15	18	1B	1E	21	24	27	2A	2D	30
4	4	8	C	10	14	18	1C	20	24	28	2C	30	34	38	3C	40
5	5	A	F	14	19	1E	23	28	2D	32	37	3C	41	46	4B	50
6	6	C	12	18	1E	24	2A	30	36	3C	42	48	4E	54	5A	60
7	7	E	15	1C	23	2A	31	38	3F	46	4D	54	5B	62	69	70
8	8	10	18	20	28	30	38	40	48	50	58	60	68	70	78	80
9	9	12	1B	24	2D	36	3F	48	51	5A	63	6C	75	7E	87	90
A	A	14	1E	28	32	3C	46	50	5A	64	6E	78	82	8C	96	A0
B	B	16	21	2C	37	42	4D	58	63	6E	79	84	8F	9A	A5	B0
C	C	18	24	30	3C	48	54	60	6C	78	84	90	9C	A8	B4	C0
D	D	1A	27	34	41	4E	5B	68	75	82	8F	9C	A9	B6	C3	D0
E	E	1C	2A	38	46	54	62	70	7E	8C	9A	A8	B6	C4	D2	E0
F	F	1E	2D	3C	4B	5A	69	78	87	96	A5	B4	C3	D2	E1	F0
10	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	100