

$$(4 \ 5 \ 3)_{10}$$

100's 10's 1's
 10^2 10^1 10^0

$$\begin{array}{r} 9 \\ + 1 \\ \hline 10 \end{array}$$

0
1
2
3
4
5
6
7
8
9

0
1
2
3
4
5

+
-
+
-
+
-
10

$$(453)_6$$

$$\begin{aligned} 4 \times 6^2 &= 4 \times 36 = 144 \\ 5 \times 6^1 &= 5 \times 6 = 30 \\ 3 \times 6^0 &= 3 \times 1 = 3 \\ \hline & (177)_{10} \end{aligned}$$

0
1
2
3
4
5

$$(1\ 0\ 0\ 1\ 1\ 0)_2$$

$$\begin{array}{r} 1 \times 2^5 = 1 \times 32 = 32 \\ 0 \times 2^4 = = 0 \\ 0 \times 2^3 = = 0 \\ 1 \times 2^2 = 1 \times 4 = 4 \\ 1 \times 2^1 = 1 \times 2 = 2 \\ 0 \times 2^0 = = 0 \\ \hline (38)_{10} \end{array}$$

128 2^7	64 2^6	32 2^5	16 2^4	8 2^3	4 2^2	2 2^1	1 2^0
1	1	0	1	0	1	1	0

$$\begin{array}{r}
 1 \\
 2 \\
 2 \ 8 \\
 \tau \quad 6 \ 4 \\
 \quad 1 \ 6 \\
 \quad \quad 4 \\
 \quad \quad 2 \\
 \hline
 (214)_{10}
 \end{array}$$

128	64	32	16	8	4	2	1
1	1	1	0	1	0	0	1

$$\begin{array}{r}
 233 \\
 \hline
 128 \\
 \hline
 105 \\
 64 \\
 \hline
 41 \\
 32 \\
 \hline
 9
 \end{array}$$

$$\begin{array}{r}
 9 \\
 \hline
 8 \\
 \hline
 1 \\
 \hline
 0
 \end{array}$$

	0 0 0 0	0 0
+	0 0 0 1	
<hr/>		
	0 0 0 1	1 1
+	0 0 0 1	
<hr/>		
	0 0 1 0	2 2
+	0 0 0 1	
<hr/>		
	0 0 1 1	3 3
+	0 0 0 1	
<hr/>		
	0 1 0 0	4 4
+	0 0 0 1	
<hr/>		
	0 1 0 1	5 5
+	0 0 0 1	
<hr/>		
	0 1 1 0	6 6
+	0 0 0 1	
<hr/>		
	0 1 1 1	7 7

	0 1 1 1	
+	0 0 0 1	
<hr/>		
	1 0 0 0	8 8
	1 0 0 1	9 9
	1 0 1 0	10 ABLE
	1 0 1 1	11 BAKER
	1 1 0 0	12 CHARLIE
	1 1 0 1	13 DOG
	1 1 1 0	14 EASY
	1 1 1 1	15 FOX

HEXADECIMAL



$$(C \quad F)_{16}$$

$16^1 \quad 16^0$

$$C \times 16^1 = 12 \times 16 = 192$$

$$F \times 16^0 = 15 \times 1 = 15$$

$$(207)_{10}$$

$$\begin{array}{r} 12 \\ \times 16 \\ \hline 72 \\ 12 \\ \hline 192 \end{array}$$

128	64	32	16	8	4	2	1
1	1	0	0	1	1	1	1

$$\begin{array}{r} 128 \\ + 64 \\ + 8 \\ + 4 \\ + 2 \\ + 1 \\ \hline (207)_{10} \end{array}$$

$$\begin{array}{r}
 243 \\
 \underline{16} \\
 83 \\
 \underline{80} \\
 3
 \end{array}$$

$$(243)_{10}$$

$16^1 = 16$	$16^0 = 1$
$15 = F$	3

$$(F3)_{16}$$

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