

Subject:

Year:

Month:

Date:

Sa	Su	Mo	Tu	We	Th	Fr
----	----	----	----	----	----	----

$$\begin{array}{r}
 2048 \text{ L2} \\
 -2048 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 1024 \text{ L2} \\
 -1024 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 512 \text{ L2} \\
 -512 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 256 \text{ L2} \\
 -256 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 128 \text{ L2} \\
 -128 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 64 \text{ L2} \\
 -64 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 32 \text{ L2} \\
 -32 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 16 \text{ L2} \\
 -16 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 8 \text{ L2} \\
 -8 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 4 \text{ L2} \\
 -4 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 2 \text{ L2} \\
 -2 \text{ L2} \\
 \hline
 0
 \end{array}
 \begin{array}{r}
 1 \text{ L2} \\
 -1 \text{ L2} \\
 \hline
 0
 \end{array}$$

$$(2048)_{10} = 2(1000000000000)_{10}$$

$$1025 - 1024 = 1 \quad (1025)_{10} = (100000000001)_{10}$$

$$\begin{array}{cccccccccccc}
 2048 & 1024 & 512 & 256 & 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\
 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1
 \end{array}$$

$$127 - 64 = 63 - 32 = 31 - 16 = 15 - 8 = 7 - 4 = 3 - 2 = 1 - 1$$

$$\begin{array}{cccccccc}
 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\
 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1
 \end{array}$$

$$(127)_{10} = (1111111)_{10}$$

$$1000 - 512 = 488 - 256 = 232 - 128 = 104 - 64 = 40 - 32 = 8 - 8 = 0$$

$$\begin{array}{cccccccccccc}
 1024 & 512 & 256 & 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\
 1 & 1 & 1 & 1 & 1 & 0 & 1 & 0 & 0 & 0
 \end{array}$$

$$(1000)_{10} = (1111101000)_{10}$$

$$328 - 256 = 72 - 64 = 8 - 8 = 0$$

512	256	128	64	32	16	8	4	2	1
1	0	1	0	0	1	0	0	0	0

$$(328)_{10} = (101001000)_{10}$$

$$4141 - 4036 = 105 - 64 = 41 - 32 = 9 - 8 = 1$$

4036	2018	1024	512	256	128	64	32	16	8	4	2	1
1	0	0	0	0	0	1	1	0	1	0	0	1

8072

$$(4141)_{10} = (1000001101001)_{10}$$