

Subject :

Year. Month. Date . ()

① $1023 \begin{array}{|c} \hline 2 \\ \hline 1 \\ \hline 0 \\ \hline 2 \\ \hline 3 \\ \hline \end{array}$

$\frac{10}{2} \quad \frac{011}{1} \quad \frac{208}{1} \quad \frac{121}{1} \quad \frac{93}{1} \quad \frac{10}{1} \quad \frac{2}{1}$

$\frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1}$

$\frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1}$

2 9 8 8 4 0 + 2 2 2 1 0

$$\Rightarrow (1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1) = (1 \times 1) + (2 \times 1) + (4 \times 1) +$$
$$+ (8 \times 1) + (16 \times 1) + (32 \times 1) + (64 \times 1) + (128 \times 1) + (256 \times 1)$$
$$+ (512 \times 1) = 1 + 2 + 4 + 8 + 16 + 32 + 64 + 128 + 256 + 512$$
$$= 1023$$

② $2059 \begin{array}{|c} \hline 2 \\ \hline 0 \\ \hline 5 \\ \hline 9 \\ \hline \end{array}$

$\frac{2}{0} \quad \frac{05}{1} \quad \frac{12}{1} \quad \frac{204}{1} \quad \frac{128}{1} \quad \frac{22}{1} \quad \frac{141}{1}$

$\frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1}$

$\frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1} \quad \frac{1}{1}$

$$\Rightarrow (1 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 1) = (1 \times 1) +$$
$$+ (2059 \times 1) = 2059$$

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(3) ३०८० ।२
$$\begin{array}{r} 1012 \\ \times 504 \\ \hline 11 10 \end{array}$$

$$\begin{array}{r} 1012 \\ \times 14 \\ \hline 11 14 \\ \hline 1012 \end{array}$$

$$\begin{array}{r} 1012 \\ \times 10 \\ \hline 1012 \end{array}$$

$$\begin{array}{r} 1012 \\ \times 1 \\ \hline 1012 \end{array}$$

$$\begin{array}{r} 1012 \\ \times 1 \\ \hline 1012 \end{array}$$

$$\begin{array}{r} 1012 \\ \times 1 \\ \hline 1012 \end{array}$$

$$\begin{array}{r} 1012 \\ \times 1 \\ \hline 1012 \end{array}$$

$$\begin{array}{r} 1012 \\ \times 1 \\ \hline 1012 \end{array}$$

$$\Rightarrow (1 \ 0 \ 1 \ 1 \ 1 \ 1 \ 0 \ 1 \ 0 \ 0 \ 0 \ 0 \ 1)_{\text{r}} = (1 \times 1) + (14 \times 1)$$

$$+ (4 \times 1) + (10 \times 1) + (504 \times 1) + (101 \times 1) + (10.5 \times 1)$$

$$= 1 + 14 + 4 \times 1 + 10 \times 1 + 504 + 101 \times 1 + 10.5 \times 1 = 3080$$

(4) १०८८ ।२
$$\begin{array}{r} 1088 \\ \times 14 \\ \hline 14 10 \\ \hline 1088 \end{array}$$

$$\begin{array}{r} 1088 \\ \times 14 \\ \hline 14 10 \\ \hline 1088 \end{array}$$

$$\begin{array}{r} 1088 \\ \times 1 \\ \hline 1088 \end{array}$$

$$\begin{array}{r} 1088 \\ \times 1 \\ \hline 1088 \end{array}$$

$$\begin{array}{r} 1088 \\ \times 1 \\ \hline 1088 \end{array}$$

$$\Rightarrow (1 \ 0 \ 0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 1 \ 0 \ 0)_{\text{r}} = (1 \times 1) + (14 \times 1)$$

$$+ (1088 \times 1) = 1 + 14 + 1088 = 1089$$

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③ $\begin{array}{r} 101011 \\ \times 100110 \\ \hline 101011 \\ 101011 \\ \hline 101011 \end{array}$

$\Rightarrow (1 \ 1 \ 1 \ 1 \ 1 \ 0 \ 0 \ 1 \ 0 \ 0)_5 = (f \times 1)$

$$+ (22 \times 1) + (4f \times 1) + (1f\lambda \times 1) + (5\lambda \times 1) + (01f \times 1) + (1 \cdot r \times 1)$$
$$= f + 22 + 4f + 1f\lambda + 5\lambda + 01f + 1 \cdot r = 1010$$

④ $\begin{array}{r} 10111 \\ \times 100110 \\ \hline 10111 \\ 10111 \\ \hline 10111 \end{array}$

$\Rightarrow (1 \ 1 \ 1 \ 1 \ 1 \ 0 \ 1 \ 1 \ 1 \ 0 \ 0)_5 = (f \times 1) + (1 \times 1)$

$$+ (14 \times 1) + (54f \times 1) + (1f\lambda \times 1) + (20\lambda \times 1) + (01f \times 1) + (1 \cdot r \times 1)$$
$$= f + 14 + 54f + 1f\lambda + 20\lambda + 01f + 1 \cdot r = 1011$$

$$\begin{array}{r}
 \textcircled{v} \quad 1313 \\
 \underline{11} \quad \underline{404} \\
 \underline{\underline{11}} \quad \underline{\underline{4}} \\
 \underline{\underline{11}} \quad \underline{\underline{14}} \\
 \end{array}$$

$$\Rightarrow (1 \ 0 \ 1 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0 \ 0 \ 1)_r = (1 \times 1) + \\
 + (32 \times 1) + (204 \times 1) + (1 \cdot 2f \times 1) = 1 + 32 + 204 + 1 \cdot 2f \\
 = 1313$$

$$\begin{array}{r}
 \textcircled{2} \quad 3210 \\
 \underline{11} \quad \underline{14 \cdot 0} \\
 \underline{\underline{11}} \quad \underline{\underline{14}} \\
 \end{array}$$

$$\Rightarrow (1 \ 1 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0 \ 1 \ 0 \ 1 \ 0)_r = (r \times 1)$$

$$+ (\wedge \times 1) + (1 \cap \wedge \times 1) + (1 \cdot 2f \times 1) + (r \cdot f \wedge \times 1) = r + \wedge + \\
 + 1 \cdot 2f + r \cdot f \wedge = 3210$$

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⑪ $f_{0.94} L^2$

$\frac{f}{0.9}$ $\frac{f}{0.8}$ $\frac{f}{0.7}$ $\frac{f}{0.6}$ $\frac{f}{0.5}$ $\frac{f}{0.4}$ $\frac{f}{0.3}$ $\frac{f}{0.2}$ $\frac{f}{0.1}$

$\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$

$\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$ $\frac{14}{\textcircled{0}}$

$\Rightarrow (1 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0) = (f_{0.94} \times 1)$

$= f_{0.94}$