

①

$$12345678_{10} \rightarrow X_{16}$$

$$\begin{array}{r|l}
 12345678 & 16 \\
 \hline
 12345664 & 771604 \\
 \hline
 14 & 771600 \\
 & 4 \\
 & 48225 \\
 & 48224 \\
 & 1 \\
 & 3014 \\
 & 3008 \\
 & 6 \\
 & 188 \\
 & 176 \\
 & 12 \\
 & 16 \\
 & 11
 \end{array}$$

Ответ :  $X_{16} = BC614E$

$$1000000_{10} \rightarrow X_{16}$$

$$\begin{array}{r|l}
 1000000 & 16 \\
 \hline
 1000000 & 62500 \\
 \hline
 0 & 62496 \\
 & 4 \\
 & 3906 \\
 & 3904 \\
 & 2 \\
 & 244 \\
 & 240 \\
 & 4 \\
 & 16 \\
 & 15
 \end{array}$$

Ответ :  $X_{16} = F4240$

②

$$12345678_{16} \rightarrow X_{10} =$$

$$\begin{aligned}
 &= 8 \cdot 16^0 + 7 \cdot 16^1 + 6 \cdot 16^2 + 5 \cdot 16^3 + 4 \cdot 16^4 + 3 \cdot 16^5 + 2 \cdot 16^6 + 1 \cdot 16^7 = \\
 &= 8 + 112 + 1536 + 20480 + 262144 + 3145728 + 33554432 + \\
 &+ 268435456 = \boxed{305419896}
 \end{aligned}$$

$$1000000_{16} \rightarrow X_{10} = 1 \cdot 16^6 = \boxed{16777216}$$

③ Ответ ВП  $\rightarrow X$

Мог  $\rightarrow A$

Существенное шококо  $\rightarrow B$

Хлеб  $\rightarrow C$

$$X = A \cdot (A + C) \cdot B \cdot (B + C) = A \cdot B$$

A B C X

0 0 0 0

0 0 1 0

0 1 0 0

0 1 1 0

1 0 0 0

1 0 1 0

1 1 0 1



1 1 1 1

④  $X = !A \vee B$




A B	X	$A \rightarrow B$
0 0	1	1
0 1	1	1
1 0	0	0
1 1	1	1

$X = (A \cdot B) \vee (!A \cdot !B)$

A B	$A \cdot B$	$!A \cdot !B$	X	$A \leftrightarrow B$
0 0	0	1	1	1
0 1	0	0	0	0
1 0	0	0	0	0
1 1	1	0	1	1



X = A\*B + A\*!B + !A\*B



A	B	A*B	A*!B	!A*B	X
0	0	0	0	0	0
0	1	0	0	1	1
1	0	0	1	0	1
1	1	1	0	0	1

Unity WebGL BooleanGame

$$\begin{aligned}
 \textcircled{6} \quad X &= (B \rightarrow A) \cdot (\overline{A+B}) \cdot (A \rightarrow C) = \\
 &= (\overline{B} + A) \cdot (\overline{A+B}) \cdot (\overline{A} + C) = \\
 &= (\overline{B} + A) \cdot \overline{A} \cdot \overline{B} \cdot (\overline{A} + C) = \\
 &= \overline{B} \cdot (\overline{B} + A) \cdot \overline{A} \cdot (\overline{A} + C) = \overline{B} \cdot \overline{A}
 \end{aligned}$$