

★ Binary number for

① 123

→

123
- 64
59
- 32
27
- 16
11

128 64 32 16 8 4 2 1

0 1 1 1 1 0 1 1

123 \Rightarrow 0111 1011

64+32+16+8+2+1
96+16+11 = 123

② 74

128 64 32 16 8 4 2 1

0 1 0 0 1 0 0 0

74 \rightarrow 0100 1000

③ -60

60
- 32
28
- 16
12

128 64 32 16 8 4 2 1

60 \leftarrow 0 0 1 1 1 0 0

1's Comp \rightarrow 1 1 0 0 0 0 1 1

2's Comp +
1 1 0 0 0 1 1 0

$$\boxed{-60 \Rightarrow 11000100}$$

④

$$\underline{\underline{11}} \rightarrow$$

$$\begin{array}{r} 1011 \\ + \quad 11 \\ \hline 1100 \end{array}$$

$$\boxed{-12}$$