BINARY EXERCISES

Summer in JAPAN 2016: Computer Science Workshop

Base 2 (Binary) Place Value Chart to Eight Places

2 ⁷	2 ⁶	2 ⁵	2 ⁴	2 ³	2 ²	21	2 ⁰
2 x 64	2 x 32	2 x 16	2 x 8	2 x 4	2 x 2	2 x 1	1
128	64	32	16	8	4	2	1
twenty-eights place	Sixty-fours place	Thirty-twos place	Sixteens place	Eights place	Fours place	Twos place	Ones place

Decimal (regular) to Binary:

Convert the decimal (regular) number into binary.

Binary to decimal:

Convert the binary numbers into decimal (regular) numbers.

Bonus - Binary Addition:

Add the binary numbers together.

1

Ex.)
$$00010001$$
 2) 01001100 3) 0001110

$$+00011001$$
 $+00010101$ $+00010101$

Bonus - Binary Subtraction:

Subtract the binary numbers.