Binary Practice Arithmetic

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① $01_2 = 1_{10}$
1

② $11011_2 = 27_{10}$
16 8 4 2 1 = 27

③ $1110111 = 118_{20}$
64 32 16 8 4 2 1
$= 118$

④ $10001_2 = 17_{10}$
16 8 4 2 1
16 + 1 = 17

⑤ My age in binary is 10010 $18_{10} = 10010$
-16
2
-2
0

⑥ $25_{10} = 11001_2$
-16
9
-8
1
-1
0

⑦ $16_2 = 10000$
-16
0

⑧ $256_{10} = 100000000$
1024 256 64 16 4
512 128 32 8 2 1
-256
0

⑨ $161_{10} = 10110101_2$
-128
33
-32
1
-16
5
-4
1
-1
0

⑩ $83_{10} = 1010011_2$
-64 1
19
-16 1
3
-2 1
1
-1
0