Twos Complement Worksheet

	Number	Negative?	Two's Complement
1	$0000\ 0001_2$		
2	$1111\ 1111_2$		
3	$0101\ 0101_2$		
4	$1010\ 1010_2$		
5	$0101\ 0110_2$		
6	$1100\ 0011_2$		
7	$E7_{16}$		
8	23_{16}		
9	78_{16}		
A	88_{16}		
B	01_{16}		
C	DC_{16}		
D	44_{16}		
E	36_{10}		
F	-20_{10}		

Binary Arithmetic

Number	CF	OF
$0101\ 0101_2$ $+0110\ 0001_2$		
$1001\ 0000_2$ $+1001\ 0000_2$		
$1111\ 1111_2$ $+0000\ 0001_2$		
$1010\ 1010_2$ $+0101\ 0101_2$		

$1100\ 1100_2$ $\&1010\ 0101_2$	$1100\ 1100_2$ $\wedge1010\ 0101_2$
$1100\ 1100_2$ $|1010\ 0101_2$	$\sim0101\ 0101_2$