

Sheet1

Consider the 3-bit signed binary number system.

Complete the following add and sub tables

Compare the results between decimal and binary numbers.

Color the cases where the results are different from each other.

What is the "Overflow"?

“+”	100	101	110	111	000	001	010	011
100								
101								
110								
111					111			
000								
001								
010								
011								110

“+”	-4	-3	-2	-1	0	1	2	3
-4								
-3								
-2								
-1					-1			
0								
1								
2								
3								6

Sheet1

"_"	100	101	110	111	000	001	010	011
100								
101								
110								
111								
000								
001								
010								
011								

"_"	-4	-3	-2	-1	0	1	2	3
-4								
-3								
-2								
-1								
0								
1								
2								
3								