M1CW1

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Numbering System Practice

Show your work. Not showing your work will have points deducted.

Convert the following binary numbers to Decimal. Circle or highlight your answers.

1. $01101101_2 = \boxed{109_{10}}$

0	1	1	0	1	1	0	1
128	64	32	16	8	4	2	1

$64+32+8+4+1 = 109_{10}$

2. $11000010_2 = \boxed{194_{10}}$

1	1	0	0	0	0	1	0
128	64	32	16	8	4	2	1

$128+64+2 = 194_{10}$

3. $10101010_2 = \boxed{170_{10}}$

1	0	1	0	1	0	1	0
128	64	32	16	8	4	2	1

$128+32+8+2 = 170_{10}$

4. $00010111_2 = \boxed{23_{10}}$

0	0	0	1	0	1	1	1
			16	8	4	2	1

$16+4+2+1 = 23$

5. $10000101_2 = \boxed{133_{10}}$

1	0	0	0	0	1	0	1
128	64	32	16	8	4	2	1

$128+4+1 = 133_{10}$