Date

PRACTICAL - 1

1 Convert $(1056)_{16}$ to $(\ )_8$

→ $(1056)_{16} \rightarrow (\ )_2$

1	0	5	6
0001	0000	0101	0110

$(1000001010110)_2$

1	000	001	010	110
1	0	1	2	6

→ $(10126)_8$

2 $(11672)_8$ to $(\ )_{16}$

$(11672)_8 \rightarrow (\ )_2$

1	1	6	7	2
001	001	110	111	010

1001110111010

001	0011	1011	1010
1	3	11 (B)	10 (A)

→ $(13BA)_{16}$

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3 $(2724)_8 \rightarrow (\cdot)_{10}$

$\rightarrow 4\times8^0 + 2\times8^1 + 7\times8^2 + 2\times8^3 = (1492)_{10}$

4 $(3211)_4$ to $(\ )_5$

$(3211)_4 \rightarrow (\ )_{10}$

$1\times4^0 + 1\times4^1 + 2\times4^2 + 3\times4^3 = (229)_{10}$

$(229)_{10} \rightarrow (\ )_5$

5	229	
5	45	4
5	9	0
5	1	4
	0	1

$\rightarrow (1404)_5$

5 $(1001001100)_2 \rightarrow (\ )_8$

$(1001001100)_2 \rightarrow (\ )_{10}$

$0\times2^0 + 0\times2^1 + 1\times2^2 + 1\times2^3 + 0\times2^4 + 0\times2^5 + 1\times2^6 + 0\times2^7 + 0\times2^8 + 1\times2^9 = (588)_{10}$

$(588)_{10} \rightarrow (\ )_6$

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6	588	
6	98	0
6	16	2
	2	4
	0	2

$\Rightarrow (2420)_6$