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1. 1011_2 Answer: 10001111

$\times\ 1101_2$

1011

$0000\ x$

$1011\ xx$

$+\ 1011\ xxx$

10001111

2.

Iteration	Step	Multiplier	Multiplicand	Product
0		1011	1101	0000 0000
1	1	1011	1101	0000 1101
	2	101	11010	0000 1101
	3	101	11010	0000 1101
2	1	101	11010	0010 0111
	2	10	110100	0010 0111
	3	10	110100	0010 0111
3	1	10	110100	0010 0111
	2	1	1101000	0010 0111
	3	1	1101000	0010 0111
4	1	1	1101000	1000 1111
	2		1101000	1000 1111
	3		11010000	1000 1111

iteration	step	Multiplier	Multiplicand	Product
0		1101	1011	0000 0000
1	1	1101	1011	0000...1011
	2	110	1011	1000...101
	3	110	1011	1000...101
2	1	110	1011	1000...101
	2	11	1011	01000...101
	3	11	1011	01000...101
3	1	11	1011	01000...10000
	2	1	1011	10100...10000
	3	1	1011	10100...10000
4	1	1	1011	10100...11011
	2		101	110100...11011
	3		101	continue shifting & twg

Answer at end: 0000 ... 10001111