

Decimal To Binary Conversion

To convert a decimal number to binary, first subtract the largest possible power of two, and keep subtracting the next largest possible power from the remainder, marking 1s in each column where this is possible and 0s where it is not.

Example 1 - (Convert Decimal 44 to Binary)

44						
- 32						
<hr style="border: 0.5px solid black;"/>						
12						
- 8						
<hr style="border: 0.5px solid black;"/>						
4						
- 4						
<hr style="border: 0.5px solid black;"/>						
0						

32	16	8	4	2	1
1	0	1	1	0	0

Example 2 - (Convert Decimal 15 to Binary)

15						
- 8						
<hr style="border: 0.5px solid black;"/>						
7						
- 4						
<hr style="border: 0.5px solid black;"/>						
3						
- 2						
<hr style="border: 0.5px solid black;"/>						
1						

32	16	8	4	2	1
0	0	1	1	1	1

Example 3 - (Convert Decimal 62 to Binary)

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