Binary to Decimal Practice Exercises:

<u>Task:</u> Practice converting the binary numbers to a dotted decimal equivalent.

<u>Explanation</u>: Look at the binary number bit status. If there is a 1 in a position, add the value shown. If there is a 0 in a position, do not add values. Note that 8 bits cannot represent a decimal number greater than 255. (If all eight positions are ones, 128 + 64 + 32 + 16 + 8 + 4 + 2 + 1 = 255.)

Solve for the decimal values:

Exponent	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
Bit Position	8	7	6	5	4	3	2	1
Value	128	64	32	16	8	4	2	1
Binary # Bit Status								

Decimal Value:

Exponent	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
Bit Position	8	7	6	5	4	3	2	1
Value	128	64	32	16	8	4	2	1
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Decimal Value: