

Binary to Decimal: 1001111

	2^6	2^5	2^4	2^3	2^2	2^1	2^0
Place Value:	64	32	16	8	4	2	1
Binary Bit:	1	0	0	1	1	1	1

The diagram illustrates the conversion of the binary number 1001111 to decimal. It shows the binary bits aligned with their corresponding place values (powers of 2). The bits 1, 1, 1, and 1 are highlighted with blue boxes, and arrows point from these boxes to the place values 64, 8, 4, and 2 respectively, indicating they are the only terms to be added in the calculation.

Calculation: $64 + 0 + 0 + 8 + 4 + 2 + 1 = 79$