

Index Of Decimal Values for 2^{-n}

| n | Denominator | Decimal Value for 2^{-n} |
|----|-------------|---------------------------------------|
| 0 | 1 | 1 |
| 1 | 2 | 0,5 |
| 2 | 4 | 0,25 |
| 3 | 8 | 0,125 |
| 4 | 16 | 0,0625 |
| 5 | 32 | 0,03125 |
| 6 | 64 | 0,015625 |
| 7 | 128 | 0,0078125 |
| 8 | 256 | 0,00390625 |
| 9 | 512 | 0,001953125 |
| 10 | 1024 | 0,0009765625 |
| 11 | 2048 | 0,00048828125 |
| 12 | 4096 | 0,000244140625 |
| 13 | 8192 | 0,0001220703125 |
| 14 | 16384 | 0,00006103515625 |
| 15 | 32768 | 0,000030517578125 |
| 16 | 65536 | 0,0000152587890625 |
| 17 | 131072 | 0,00000762939453125 |
| 18 | 262144 | 0,000003814697265625 |
| 19 | 524288 | 0,0000019073486328125 |
| 20 | 1048576 | 0,00000095367431640625 |
| 21 | 2097152 | 0,000000476837158203125 |
| 22 | 4194304 | 0,0000002384185791015620 |
| 23 | 8388608 | 0,00000011920928955078100 |
| 24 | 16777216 | 0,000000059604644775390600 |
| 25 | 33554432 | 0,0000000298023223876953000 |
| 26 | 67108864 | 0,00000001490116119384770000 |
| 27 | 134217728 | 0,000000007450580596923830000 |
| 28 | 268435456 | 0,0000000037252902984619100000 |
| 29 | 536870912 | 0,00000000186264514923096000000 |
| 30 | 1073741824 | 0,000000000931322574615479000000 |
| 31 | 2147483648 | 0,0000000004656612873077390000000 |
| 32 | 4294967296 | 0,00000000023283064365387000000000 |
| 33 | 8589934592 | 0,000000000116415321826935000000000 |
| 34 | 17179869184 | 0,0000000000582076609134674000000000 |
| 35 | 34359738368 | 0,00000000002910383045673370000000000 |

valid values, calculated correctly

values that suffer from the inaccuracy of the computing system / program