

Existe 2
padrões 1.

0,1:

0.1 x 2	0.2	0
0.2 x 2	0.4	0
0.4 x 2	0.8	0
0.8 x 2	1.6	1
0.6 x 2	1.2	1
0.2 x 2	0.4	0
0.4 x 2	0.8	0
0.8 x 2	1.6	1
0.6 x 2	1.2	1
0.2 x 2	0.4	0

$$0.1_{10} = \frac{0.000110011001...}{2} = 1.100110011... \cdot 2^{-4}$$

$$\text{Exponent} = -4 + 127 = 123$$

Representação IEEE 754

Sign bit

Exponent

Mantissa

0

01111011

100110011...

Zeichne 2.

$$\frac{2}{7}(10) = 0.2857142857142857(10) \quad \left| \begin{array}{c|c} 2 & 0 \\ 2 & 0 \\ 0 & 1 \\ 2 & 0 \\ 0 & 0 \\ 2 & 1 \\ 2 & 0 \\ 2 & 0 \\ 2 & 1 \end{array} \right.$$

$$\frac{2}{7}(10) = \overset{(10)}{-2} \overbrace{0,01001001001001(10)}$$

Bit zahlen: 0

$$\text{Exponent: } -2 + 127 = 125(10) = 01111101(2)$$

$$\text{Mantissa: } 001001001001...01$$