

$$173_{10} = (10101101)_2$$

$$\begin{array}{r} 173 \div 2 = 86 \text{ R } 1 \\ 86 \div 2 = 43 \text{ R } 0 \\ 43 \div 2 = 21 \text{ R } 1 \\ 21 \div 2 = 10 \text{ R } 1 \\ 10 \div 2 = 5 \text{ R } 0 \\ 5 \div 2 = 2 \text{ R } 1 \\ 2 \div 2 = 1 \text{ R } 0 \\ 1 \div 2 = 0 \text{ R } 1 \end{array}$$

$$23,25 = (1011,01)_2$$

$$\begin{array}{r} 23 \div 2 = 11 \text{ R } 1 \\ 11 \div 2 = 5 \text{ R } 1 \\ 5 \div 2 = 2 \text{ R } 1 \\ 2 \div 2 = 1 \text{ R } 0 \\ 1 \div 2 = 0 \text{ R } 1 \end{array}$$

$$\begin{cases} 0.25 \times 2 = 0.5 \\ 0.5 \times 2 = 1.0 \end{cases} \rightarrow 0.01$$

$$3.73 \approx (11,1011)_2$$

$$\begin{array}{r} 3 \div 2 = 1 \text{ R } 1 \\ 1 \div 2 = 0 \text{ R } 1 \\ 0.73 \times 2 = 1.46 \\ 0.46 \times 2 = 0.92 \\ 0.92 \times 2 = 1.84 \\ 0.84 \times 2 = 1.68 \end{array}$$

$$\begin{array}{r} 3 \div 2 = 1 \text{ R } 1 \\ 1 \div 2 = 0 \text{ R } 1 \end{array}$$

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$$(1001)_2 = (1 \times 2^3) + (0 \times 2^2) + (0 \times 2^1) + (1 \times 2^0) = 8 + 0 + 0 + 1 = 9_{10}$$

$$(011011,001)_2 = (0 \times 2^5) + (1 \times 2^4) + (1 \times 2^3) + (0 \times 2^2) + (1 \times 2^1) + (1 \times 2^0) + (0 \times 2^{-1}) + (0 \times 2^{-2}) + (1 \times 2^{-3}) = 0 + 16 + 8 + 0 + 2 + 1 + 0 + 0 + \frac{1}{8} = 27.125_{10}$$

$$(A9,1F)_{16} = (10 \times 16^1) + (9 \times 16^0) + (1 \times 16^2) + (15 \times 16^1) = (40960 + 1440 + 256 + 240) = (43807)_{10}$$

$$(73.15)_8 = (111,011.001,101)_2$$

$$(001,011.011,010)_2 = (13.72)_8$$

$$(F2.35)_{16} = (1111,0010.0011,1101)_2$$

$$(010,1100.100)_2 = (2C.8)_{16}$$