

12.375₁₀

11
375.

$$1100.011_2$$

9-4-14

$$16 \overline{) 12} \begin{array}{r} 0 \\ \end{array}$$

$r(12)$

C₁₆
11002

11002

12
10.750
2

2
1.500

$$\overline{1.000}^2$$

C. 8th

14.38

$$\begin{array}{r} 001100 \\ \hline 14 \end{array} \cdot \frac{011}{3}$$

$$\frac{1}{4} \cdot 3$$

6.5678

$$\frac{0110}{6} \cdot \frac{101}{B} \frac{110}{B} \frac{11000}{816}$$

6 . B B 8₁₆

6.73242147510

$$6 \cdot 16^0 + 11 \cdot 16^1 + 11 \cdot 16^2 + 8 \cdot 16^3$$

$$6 \cdot 1 + 11 \cdot \frac{1}{16} + 11 \cdot \frac{1}{16 \cdot 16} + 8 \cdot \frac{1}{16 \cdot 16 \cdot 16}$$

$$6 \div 11 \left(\frac{1}{16} + \frac{1}{16 \cdot 16} \right) + 8 \frac{1}{16 \cdot 16 \cdot 16}$$

$$16 + 11 \frac{16 \cdot 16}{16 \cdot 16 \cdot 16} + 8 \frac{16 \cdot 16 \cdot 16}{16 \cdot 16 \cdot 16}$$

$$6 + \frac{11 \cdot 16 \cdot 16 + 8}{16 \cdot 16 \cdot 16}$$

$$6 + \frac{11 \cdot 256 + 8}{256 - 16}$$

$$\begin{array}{r} 1 \\ 256 \\ 2560 \\ \hline 2816 \end{array}$$

$$\begin{array}{r} 6 + 2816 + 8 \\ \hline 4696 \end{array}$$

64 $\frac{2924}{4096}$

0.7304687

0.7324218

1

110. 101 110 111

6.1

$$1 \cdot 2^1 + 1 \cdot 2^2 + 1 \cdot 2^3 + 1 \cdot 2^4 + 1 \cdot 2^5 + 1 \cdot 2^6 + 1 \cdot 2^7 + 1 \cdot 2^8 + 1 \cdot 2^9$$

6. $\frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2} + \frac{1}{2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2}$

$\begin{array}{r} 722 + 222 \\ \cdot 123000008 \\ \cdot 500000000 \\ \cdot 125000000 \\ \cdot 062500000 \\ \cdot 031250000 \\ \cdot 007812500 \\ \cdot 003906250 \\ \cdot 001953125 \\ \hline .732121875_{10} \end{array}$

6 + 11(000025) + 11(0000390625)

~~486,800.00~~
~~6,000,000.00~~

~~6 0875000000~~ 86

$$\begin{array}{r} 65.67_8 \\ 1010101.1101100_2 \\ \hline 35.DC_{16} \end{array}$$

$$3 \cdot 16^1 + 5 \cdot 16^0 + 13 \cdot 16^{-1} + 12 \cdot 16^{-2}$$

$$3 \cdot 16 + 5 + 13(0.0625) + 12 \cdot (0.00390625)$$

$$48 + 5 + 0.859375$$

$$53.859375_{10}$$

$$A. BC_{16}$$

$$\begin{array}{r} 0010101.10111100_2 \\ \hline 12.570_8 \end{array}$$

$$A \cdot 16^0 + B \cdot 16^{-1} + C \cdot 16^{-2}$$

$$10 \cdot 1 + 11 \cdot 16^{-1} + 12 \cdot 16^{-2}$$

$$10 + 11(0.0625) + 12(0.00390625)$$

$$10.734375_{10}$$

So...

$$\begin{array}{r} 65.67_8 \\ 53.859375_{10} \\ 110101.110111_2 \\ 35.DC_{16} \end{array}$$

q-4-141

$$A. BC_{16}$$

$$12.570_8$$

$$10.734375_{10}$$

$$1010.10111100_2$$

$$\begin{array}{r} 0101.101_2 \\ \hline 5.58 \end{array}$$

$$5.A_{16}$$

$$\begin{aligned} 5 \cdot 16^0 + 10 \cdot 16^{-1} \\ 5 + 10(0.0625) \\ 5.625_{10} \end{aligned}$$

$$\begin{array}{l} 101.101_2 \\ 5.625_{10} \\ 5.58 \\ 5.A_{16} \end{array}$$