

$$1) A_{(10)} = 235,125$$

$$\begin{array}{r} 235 \overline{) 2} \\ -234 \overline{) 117} \overline{) 2} \\ \hline 1 \overline{) 116} \overline{) 58} \overline{) 2} \\ \hline 1 \overline{) 58} \overline{) 29} \overline{) 2} \\ \hline 0 \overline{) 29} \overline{) 14} \overline{) 2} \\ \hline 1 \overline{) 14} \overline{) 7} \overline{) 2} \\ \hline 0 \overline{) 7} \overline{) 3} \overline{) 2} \\ \hline 1 \overline{) 3} \overline{) 1} \overline{) 1} \end{array}$$

$$A_{(2)} = (11101011,001)$$

$$\begin{array}{r} 235 \overline{) 16} \\ -224 \overline{) 11} \\ \hline 11 \end{array}$$

$$\begin{array}{r} \times 0,125 \\ \hline 2 \end{array}$$

$$\begin{array}{l} 14 = E \\ 11 = B \end{array}$$

$$A_{(16)} = [EB,2]$$

$$2) 19,5 \text{ i } 23,125$$

$$\begin{array}{r} 19 \overline{) 2} \\ -18 \overline{) 9} \overline{) 2} \\ \hline 1 \overline{) 8} \overline{) 4} \overline{) 2} \\ \hline 1 \overline{) 4} \overline{) 2} \overline{) 2} \\ \hline 0 \overline{) 2} \overline{) 1} \end{array}$$

$$\begin{array}{r} \times 0,5 \\ \hline 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 23 \overline{) 2} \\ -22 \overline{) 11} \overline{) 2} \\ \hline 1 \overline{) 10} \overline{) 5} \overline{) 2} \\ \hline 1 \overline{) 5} \overline{) 2} \overline{) 2} \\ \hline 1 \overline{) 2} \overline{) 1} \end{array}$$

$$(19,5)_{10} = (10011,1)_2$$

$$(23,125)_{10} = (10111,001)_2$$

$$(10011,1)_2 + (10111,001)_2 = (101010,101)_2$$

$$\begin{array}{r} 10111,1001 \\ + 10011,100 \\ \hline 101010,101 \end{array}$$

3)

$$\begin{array}{r} \times 1101,01 \\ 1011,10 \\ \hline 1101010 \\ + 110101 \\ \hline 1101010 \\ 0 \\ \hline 110101 \\ 1001100 \neq 0,0110 \end{array}$$

$$\begin{array}{l} 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ -1 \ -2 \ -3 \\ (10011000,011)_2 = 1 \cdot 2^7 + 1 \cdot 2^6 + 1 \cdot 2^5 + \\ + 1 \cdot 2^2 + 1 \cdot 2^{-3} = 128 + 76 + 8 + \frac{1}{4} + \frac{1}{8} = \\ = 152 \frac{3}{8} = 152,375 \end{array}$$

$$A_{[76]} = 60, C$$

$$\begin{array}{r} 96 \overline{) 26} \\ \underline{96} \\ 0 \end{array}$$

$$\begin{array}{r} 0,75 \\ \times 16 \\ \hline 30 \\ 42 \\ 75 \\ \hline 1200 \end{array}$$

$$72 = C$$

5) A(10) 5A, D

$$A(10) = 90,8725$$

$$(5AD)^{19-1} = 16 \cdot 5 + 10 + 13 \cdot 16^{-1} = 90 + 13 \cdot \frac{1}{16} = 90 \cdot \frac{13}{16} = 90,8125$$

6)

$$\begin{array}{r} + DBC' 7, A \\ EF 9, 5 \\ \hline EAC 0, F \end{array}$$

$$(EAC_0, F)_{16}$$

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g) $A_{16} = 5\beta^{10} = 5 \cdot 16 + 11 = 80 + 11 = 91_{10} = (1011011)_2$

$$\begin{array}{r} 91 \overline{) 96452} \\ \underline{-96} \\ 144 \overline{) 22} \\ \underline{-144} \\ 103 \overline{) 12} \\ \underline{-103} \\ 21 \overline{) 21} \\ \underline{-21} \\ 0 \end{array}$$

$$B_{10} = FA_5 = 15 \cdot 16^2 + 100 + 5 = 15 \cdot 256 + 105 = 3840 + 105 = 3945_{10}$$

$$= (1 \ 1 \ 1 \ 1 \ 1 \ 0 \ 1 \ 0 \ 0 \ 1 \ 0 \ 1/2)$$

$$\begin{array}{r} 4005 \overline{) 2} \\ \underline{-4004} \quad 2002 \overline{) 2} \end{array}$$

$$1 \overline{) 2002 \overline{) 7001} 2}$$

$$\begin{array}{r} 0 \overline{) 1000} \\ \underline{1} \\ 0 \end{array} \quad \begin{array}{r} 2 \\ \underline{500} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \overline{) 500} \\ \underline{500} \\ 0 \end{array}$$

$$\begin{array}{r} 21250 \overline{) 42500} \\ \underline{42500} \\ 00000 \end{array}$$

$$\begin{array}{r} 0 \overline{) 724} \\ \underline{7} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

$$\begin{array}{r} 17 \overline{) 291} \\ \underline{17} \\ 12 \\ \underline{10} \\ 20 \\ \underline{17} \\ 30 \\ \underline{29} \\ 10 \\ \underline{7} \\ 30 \\ \underline{29} \\ 10 \\ \underline{7} \\ 30 \\ \underline{29} \\ 10 \end{array}$$

$$\begin{array}{r} 75 \overline{) 2} \\ - 14 \overline{) 7} \overline{) 2} \\ \hline 7 \overline{) 6} \overline{) 3} \overline{) 2} \\ - 6 \overline{) 3} \overline{) 2} \\ \hline 1 \overline{) 1} \overline{) 1} \\ - 1 \overline{) 1} \overline{) 1} \\ \hline \end{array}$$

$$10) A_{18} = 76 \stackrel{10}{=} 7 \cdot 8 + 6 = 56 + 6 = (62)_{10} = (111110)_2 = (3E)_{16}$$

$$\begin{array}{r} 62 \overline{) 2} \\ 62 \overline{) 37} \overline{) 2} \\ \hline 0 \quad 30 \quad 15 \overline{) 2} \\ \quad 1 \quad 14 \quad 7 \overline{) 2} \\ \quad \quad 1 \quad 6 \quad 3 \overline{) 2} \\ \quad \quad \quad 1 \quad 2 \quad 1 \end{array}$$

$$\begin{array}{r} 62 \overline{) 26} \\ -48 \overline{) 3} \\ \hline 14 \end{array}$$

$$11) B_{18} = 123 \stackrel{10}{=} 8^2 + 2 \cdot 8 + 3 = 64 + 16 + 3 = (83)_{10} = (1000011)_2 = (53)_{16}$$

$$\begin{array}{r} 83 \overline{) 2} \\ -82 \overline{) 47} \overline{) 2} \\ \hline 1 \quad 40 \quad 20 \overline{) 2} \\ \quad 1 \quad 20 \quad 10 \overline{) 2} \\ \quad \quad 20 \quad 10 \overline{) 2} \\ \quad \quad \quad 8 \quad 10 \quad 5 \overline{) 2} \\ \quad \quad \quad \quad 0 \quad 4 \quad 2 \overline{) 2} \\ \quad \quad \quad \quad \quad 0 \quad 2 \quad 1 \end{array}$$

$$\begin{array}{r} 83 \overline{) 16} \\ -80 \overline{) 5} \\ \hline 3 \end{array}$$

$$11) (0,1011)_2 = (0,6875)_{10}$$

$$(0,11)_2 = (0,75)_{10}$$

12) find how.org/5133-onlain-kalkulyator-
-sistem-schisleniya.html