Система быстрого счета в уме Якова Трахтенберга

ВТОРОЙ СЕМЕСТР ЗАНЯТИЕ 3

ТЕМА 13 – ТРЁХЗНАЧНЫЕ МНОЖИТЕЛИ

$$\begin{array}{r} 000213 \times 121 \\ \hline 25773 \end{array}$$

1 шаг: $3 \times 1 = 3$

2 шаг: $000\underline{213} \times \underline{121} \rightarrow (1 \times 1) + (2 \times 3) = 7$

3 шаг: $000\underline{\underline{213}} \times \underline{\underline{121}} \rightarrow \left. \begin{array}{l} 2 \times 1 = 2 \\ 1 \times 2 = 2 \\ 3 \times 1 = 3 \end{array} \right\} = 7$

4 шаг: $000\underline{\underline{\underline{213}}} \times \underline{\underline{\underline{121}}} \rightarrow \left. \begin{array}{l} 0 \times 1 \\ 2 \times 2 \\ 1 \times 1 \end{array} \right\} = 5$

5 шаг: $0\underline{0}\underline{\underline{0}}\underline{\underline{\underline{213}}} \times \underline{\underline{\underline{121}}} \rightarrow \left. \begin{array}{l} 0 \times 1 \\ 0 \times 2 \\ 2 \times 1 \end{array} \right\} = 2$

Rez = 25773

$$\begin{array}{r} 000728 \times 123 \\ \hline 89544 \end{array}$$

$$1) 8 \times 3 = \underline{24}$$

$$2) (2 \times 3) + (8 \times 2) = 22 \rightarrow 22 + \underline{2} = \underline{24}$$

$$3) (7 \times 3) + (2 \times 2) + (8 \times 1) = 33 \rightarrow 33 + \underline{2} = \underline{35}$$

$$4) (0 \times 3) + (7 \times 2) + (2 \times 1) = 16 \rightarrow 16 + \underline{3} = \underline{19}$$

$$5) (0 \times 3) + (0 \times 2) + (7 \times 1) = 7 \rightarrow 7 + \underline{1} = 8$$

$$\text{Rez} = 89544$$

$$\begin{array}{r} 000487 \times 543 \\ \hline 264441 \end{array}$$

$$1) 7 \times 3 = \underline{21}$$

$$2) (8 \times 3) + (7 \times 4) = 52 \rightarrow 52 + 2 = \underline{54}$$

$$3) (4 \times 3) + (8 \times 4) + (7 \times 5) = 12 + 32 + 35 = 79 + \underline{5} = \underline{84}$$

$$4) (0 \times 3) + (4 \times 4) + (8 \times 5) = 0 + 16 + 40 \rightarrow 56 + \underline{8} = \underline{64}$$

$$5) (0 \times 3) + (0 \times 4) + (4 \times 5) = 20 \rightarrow 20 + \underline{6} = \underline{26}$$

$$6) (0 \times 5) + (0 \times 4) + (0 \times 3) \rightarrow 0 + \underline{2} = 2$$

$$\text{Rez} = 264441$$

$$\begin{array}{r} 0008527 \times 346 \\ \hline 2950342 \end{array}$$

$$1) 7 \times 6 = \underset{*}{42}$$

$$2) (2 \times 6) + (7 \times 4) = 12 + 28 \rightarrow 40 + \underset{*}{4} = \underset{*}{44}$$

$$3) (5 \times 6) + (2 \times 4) + (7 \times 3) = 30 + 8 + 21 \rightarrow 59 + \underset{*}{4} = \underset{*}{63}$$

$$4) (8 \times 6) + (5 \times 4) + (2 \times 3) = 48 + 20 + 6 \rightarrow 74 + \underset{*}{6} = \underset{*}{80}$$

$$5) (0 \times 6) + (8 \times 4) + (5 \times 3) = 0 + 32 + 15 \rightarrow 47 + \underset{*}{8} = \underset{*}{55}$$

$$6) (0 \times 6) + (0 \times 4) + (8 \times 3) = 24 \rightarrow 24 + \underset{*}{5} = \underset{*}{29}$$

$$1) 376 \times 138$$

$$2) 543 \times 271$$

$$3) 894 \times 123$$

$$4) 5234 \times 236$$

$$5) 3182 \times 214$$

$$6) 2133 \times 321$$

$$7) 35242 \times 143$$

Продолжение следует!
До новых встреч!
Удачи всем и во всём!