

Mental Math: 3 X 1 Multiplication

Key idea: Simplify the problem by breaking it into parts.

Step	Example
	$\begin{array}{r} 648 \\ \times 9 \\ \hline \end{array}$
Multiply the 100's	$600 \times 9 = 5400$
Multiply the 10's and add to the previous product	$\begin{array}{r} 600 \times 9 = 5400 \\ 40 \times 9 = + \underline{360} \\ \hline 5760 \end{array}$
Multiply the 1's and add to the previous product	$\begin{array}{r} 600 \times 9 = 5400 \\ 40 \times 9 = + \underline{360} \\ \hline 5760 \\ 8 \times 9 = + \underline{72} \\ \hline 5832 \end{array}$

Practice

$\begin{array}{r} 431 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 637 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 862 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 957 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 927 \\ \times 7 \\ \hline \end{array}$
$\begin{array}{r} 728 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 328 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 529 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 807 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 587 \\ \times 4 \\ \hline \end{array}$
$\begin{array}{r} 184 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 214 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 757 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 259 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 297 \\ \times 8 \\ \hline \end{array}$

Answers to practice:

$\begin{array}{r} 431 \\ \times 6 \\ \hline 2586 \end{array}$	$\begin{array}{r} 637 \\ \times 5 \\ \hline 3185 \end{array}$	$\begin{array}{r} 862 \\ \times 4 \\ \hline 3448 \end{array}$	$\begin{array}{r} 957 \\ \times 6 \\ \hline 5742 \end{array}$	$\begin{array}{r} 927 \\ \times 7 \\ \hline 6489 \end{array}$
$\begin{array}{r} 728 \\ \times 2 \\ \hline 1456 \end{array}$	$\begin{array}{r} 328 \\ \times 6 \\ \hline 1968 \end{array}$	$\begin{array}{r} 529 \\ \times 9 \\ \hline 4761 \end{array}$	$\begin{array}{r} 807 \\ \times 9 \\ \hline 7263 \end{array}$	$\begin{array}{r} 587 \\ \times 4 \\ \hline 2348 \end{array}$
$\begin{array}{r} 184 \\ \times 7 \\ \hline 1288 \end{array}$	$\begin{array}{r} 214 \\ \times 8 \\ \hline 1712 \end{array}$	$\begin{array}{r} 757 \\ \times 8 \\ \hline 6056 \end{array}$	$\begin{array}{r} 259 \\ \times 7 \\ \hline 1813 \end{array}$	$\begin{array}{r} 297 \\ \times 8 \\ \hline 2476 \end{array}$

Game: 3 X 1 Multiplication Bingo

Materials needed:

- Bingo Cards and Question Cards
- Dry erase markers/erasers

To play:

- Each player needs a Bingo card and a marker
- Players take turns drawing a question card and working the problem mentally (no fair writing it down). Players mark out the answer on their Bingo cards.
- First player to get 5 in a row in any direction wins

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Bingo Key

1 $\begin{array}{r} 533 \\ \times 8 \\ \hline 4264 \end{array}$	2 $\begin{array}{r} 979 \\ \times 8 \\ \hline 7832 \end{array}$	3 $\begin{array}{r} 941 \\ \times 5 \\ \hline 4705 \end{array}$	4 $\begin{array}{r} 471 \\ \times 2 \\ \hline 942 \end{array}$	5 $\begin{array}{r} 205 \\ \times 2 \\ \hline 410 \end{array}$	6 $\begin{array}{r} 257 \\ \times 8 \\ \hline 2056 \end{array}$
7 $\begin{array}{r} 790 \\ \times 8 \\ \hline 6320 \end{array}$	8 $\begin{array}{r} 965 \\ \times 3 \\ \hline 2895 \end{array}$	9 $\begin{array}{r} 530 \\ \times 9 \\ \hline 4770 \end{array}$	10 $\begin{array}{r} 799 \\ \times 2 \\ \hline 1598 \end{array}$	11 $\begin{array}{r} 371 \\ \times 5 \\ \hline 1855 \end{array}$	12 $\begin{array}{r} 596 \\ \times 2 \\ \hline 1192 \end{array}$
13 $\begin{array}{r} 133 \\ \times 3 \\ \hline 399 \end{array}$	14 $\begin{array}{r} 643 \\ \times 6 \\ \hline 3858 \end{array}$	15 $\begin{array}{r} 874 \\ \times 6 \\ \hline 5244 \end{array}$	16 $\begin{array}{r} 466 \\ \times 8 \\ \hline 3728 \end{array}$	17 $\begin{array}{r} 564 \\ \times 6 \\ \hline 3384 \end{array}$	18 $\begin{array}{r} 867 \\ \times 4 \\ \hline 3468 \end{array}$
19 $\begin{array}{r} 938 \\ \times 8 \\ \hline 7504 \end{array}$	20 $\begin{array}{r} 375 \\ \times 7 \\ \hline 2625 \end{array}$	21 $\begin{array}{r} 122 \\ \times 6 \\ \hline 732 \end{array}$	22 $\begin{array}{r} 642 \\ \times 6 \\ \hline 3852 \end{array}$	23 $\begin{array}{r} 641 \\ \times 4 \\ \hline 2564 \end{array}$	24 $\begin{array}{r} 489 \\ \times 8 \\ \hline 3912 \end{array}$
25 $\begin{array}{r} 573 \\ \times 6 \\ \hline 3438 \end{array}$	26 $\begin{array}{r} 256 \\ \times 6 \\ \hline 1536 \end{array}$	27 $\begin{array}{r} 446 \\ \times 6 \\ \hline 2676 \end{array}$	28 $\begin{array}{r} 777 \\ \times 3 \\ \hline 2331 \end{array}$	29 $\begin{array}{r} 939 \\ \times 2 \\ \hline 1878 \end{array}$	30 $\begin{array}{r} 474 \\ \times 2 \\ \hline 948 \end{array}$

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MM: 3X1 Mult

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$$\begin{array}{r} 643 \\ \times 6 \\ \hline \end{array}$$

MM: 3X1 Mult

15

$$\begin{array}{r} 874 \\ \times 6 \\ \hline \end{array}$$

MM: 3X1 Mult

16

$$\begin{array}{r} 466 \\ \times 8 \\ \hline \end{array}$$

MM: 3X1 Mult

17

$$\begin{array}{r} 564 \\ \times 6 \\ \hline \end{array}$$

MM: 3X1 Mult

18

$$\begin{array}{r} 867 \\ \times 4 \\ \hline \end{array}$$

MM: 3X1 Mult

19

$$\begin{array}{r} 938 \\ \times 8 \\ \hline \end{array}$$

MM: 3X1 Mult

20

$$\begin{array}{r} 375 \\ \times 7 \\ \hline \end{array}$$

MM: 3X1 Mult

21

$$\begin{array}{r} 122 \\ \times 6 \\ \hline \end{array}$$

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$$\begin{array}{r} 642 \\ \times 6 \\ \hline \end{array}$$

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