

Algorithm: Long multiplication

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Long multiplication

$$\begin{array}{r} 1024 \\ \times 128 \\ \hline 8192 \\ 20480 \\ + 102400 \\ \hline 131072 \end{array}$$

Algorithm

right align

for each bottom digit:

new line, append zeros

for each top digit:

multiply

if carried digit:

add

if greater than 9:

carry tens digit

print units digit

add

Long multiplication

				1	0	2
						4
×				1	2	8
				8	1	9
						2
			2	0	4	8
						0
+	1	0	2	4	0	0
	1	3	1	0	7	2

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