

# × Long Multiplication Puzzle <sup>A</sup> ×

What is the next letter in the sequence: **OTFFSS**

Complete the long multiplication calculations to find the answer. The two digits underlined in red give a letter. Where the two digits are not next to each other, the left hand digit is the first digit.

A	B	C	D	E	F	G	H	I	J	K	L	M
19	34	28	76	50	92	87	15	63	40	14	36	29
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
08	72	05	41	57	61	83	98	01	49	27	66	58

$\begin{array}{r} 263 \\ \times 31 \\ \hline 263 \\ 7890 \\ \hline 8153 \end{array}$	$\begin{array}{r} 63 \\ \times 25 \\ \hline 315 \\ 1260 \\ \hline 1575 \end{array}$	$\begin{array}{r} 35 \\ \times 44 \\ \hline 140 \\ 1400 \\ \hline 1540 \end{array}$	$\begin{array}{r} 304 \\ \times 32 \\ \hline 608 \\ 9120 \\ \hline 9728 \end{array}$
$\begin{array}{r} 45 \\ \times 18 \\ \hline 360 \\ 450 \\ \hline 810 \end{array}$	$\begin{array}{r} 61 \\ \times 37 \\ \hline 427 \\ 1830 \\ \hline 2257 \end{array}$	$\begin{array}{r} 57 \\ \times 19 \\ \hline 513 \\ 570 \\ \hline 1083 \end{array}$	$\begin{array}{r} 36 \\ \times 66 \\ \hline 216 \\ 2160 \\ \hline 2376 \end{array}$
$\begin{array}{r} 75 \\ \times 74 \\ \hline 300 \\ 5250 \\ \hline 5550 \end{array}$	$\begin{array}{r} 83 \\ \times 61 \\ \hline 83 \\ 4980 \\ \hline 5063 \end{array}$	$\begin{array}{r} 93 \\ \times 91 \\ \hline 93 \\ 8370 \\ \hline 8463 \end{array}$	$\begin{array}{r} 507 \\ \times 19 \\ \hline 4563 \\ 5070 \\ \hline 9633 \end{array}$

$$\begin{array}{r}
 91 \\
 53 \\
 \hline
 273 \\
 4550 \\
 \hline
 4823
 \end{array}$$

$$\begin{array}{r}
 121 \\
 63 \\
 \hline
 363 \\
 7260 \\
 \hline
 7623
 \end{array}$$

$$\begin{array}{r}
 69 \\
 91 \\
 \hline
 69 \\
 6210 \\
 \hline
 6279
 \end{array}$$

$$\begin{array}{r}
 102 \\
 55 \\
 \hline
 510 \\
 5100 \\
 \hline
 5610
 \end{array}$$

$$\begin{array}{r}
 36 \\
 72 \\
 \hline
 72 \\
 2520 \\
 \hline
 2592
 \end{array}$$

$$\begin{array}{r}
 86 \\
 32 \\
 \hline
 172 \\
 2580 \\
 \hline
 2752
 \end{array}$$

$$\begin{array}{r}
 103 \\
 57 \\
 \hline
 721 \\
 2150 \\
 \hline
 5871
 \end{array}$$

$$\begin{array}{r}
 106 \\
 59 \\
 \hline
 954 \\
 5300 \\
 \hline
 6254
 \end{array}$$

$$\begin{array}{r}
 69 \\
 87 \\
 \hline
 483 \\
 5520 \\
 \hline
 6003
 \end{array}$$

$$\begin{array}{r}
 93 \\
 89 \\
 \hline
 837 \\
 7440 \\
 \hline
 8277
 \end{array}$$

$$\begin{array}{r}
 35 \\
 37 \\
 \hline
 245 \\
 1050 \\
 \hline
 1295
 \end{array}$$

$$\begin{array}{r}
 49 \\
 67 \\
 \hline
 343 \\
 2940 \\
 \hline
 3283
 \end{array}$$

The next letter is e for eight.

# × Long Multiplication Puzzle AA ×

What is the next letter in the sequence: **OTFFSS**

Complete the long multiplication calculations to find the answer. The two digits underlined in red give a letter. Where the two digits are not next to each other, the left hand digit is the first digit.

A	B	C	D	E	F	G	H	I	J	K	L	M
19	34	28	76	50	92	87	15	63	40	14	36	29
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
08	72	05	41	57	61	83	98	01	49	27	66	58

$\begin{array}{r} 284 \\ \underline{\quad} \\ 23 \\ \hline 852 \\ 5680 \\ \hline 6532 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">T ×</p>	$\begin{array}{r} 275 \\ \underline{\quad} \\ 19 \\ \hline 2475 \\ 2750 \\ \hline 5225 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">h ×</p>	$\begin{array}{r} 503 \\ \underline{\quad} \\ 18 \\ \hline 4024 \\ 5030 \\ \hline 9054 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">e ×</p>	$\begin{array}{r} 207 \\ \underline{\quad} \\ 38 \\ \hline 1656 \\ 6210 \\ \hline 7866 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">n ×</p>
$\begin{array}{r} 55 \\ \underline{\quad} \\ 18 \\ \hline 440 \\ 550 \\ \hline 990 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">e ×</p>	$\begin{array}{r} 61 \\ \underline{\quad} \\ 27 \\ \hline 427 \\ 1220 \\ \hline 1647 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">x ×</p>	$\begin{array}{r} 57 \\ \underline{\quad} \\ 89 \\ \hline 513 \\ 4560 \\ \hline 5073 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">t ×</p>	$\begin{array}{r} 336 \\ \underline{\quad} \\ 16 \\ \hline 2016 \\ 3360 \\ \hline 5376 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">l ×</p>
$\begin{array}{r} 105 \\ \underline{\quad} \\ 55 \\ \hline 525 \\ 5250 \\ \hline 5775 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">e ×</p>	$\begin{array}{r} 83 \\ \underline{\quad} \\ 61 \\ \hline 83 \\ 4980 \\ \hline 5063 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">t ×</p>	$\begin{array}{r} 93 \\ \underline{\quad} \\ 91 \\ \hline 93 \\ 8370 \\ \hline 8463 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">t ×</p>	$\begin{array}{r} 507 \\ \underline{\quad} \\ 19 \\ \hline 4563 \\ 5070 \\ \hline 9633 \end{array}$ <p style="text-align: right; color: red; margin-right: 10px;">e ×</p>

$$\begin{array}{r}
 97 \\
 \hline
 53 \\
 \hline
 291 \\
 \hline
 4850 \\
 \hline
 5141 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 121 \\
 \hline
 63 \\
 \hline
 363 \\
 \hline
 7260 \\
 \hline
 7623 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 69 \\
 \hline
 91 \\
 \hline
 69 \\
 \hline
 6210 \\
 \hline
 6279 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 102 \\
 \hline
 55 \\
 \hline
 510 \\
 \hline
 5100 \\
 \hline
 5610 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 93 \\
 \hline
 32 \\
 \hline
 186 \\
 \hline
 2790 \\
 \hline
 2976 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 86 \\
 \hline
 32 \\
 \hline
 172 \\
 \hline
 2580 \\
 \hline
 2752 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 103 \\
 \hline
 57 \\
 \hline
 721 \\
 \hline
 5150 \\
 \hline
 5871 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 106 \\
 \hline
 59 \\
 \hline
 954 \\
 \hline
 5300 \\
 \hline
 6254 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 69 \\
 \hline
 87 \\
 \hline
 483 \\
 \hline
 5520 \\
 \hline
 6003 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 93 \\
 \hline
 79 \\
 \hline
 837 \\
 \hline
 6510 \\
 \hline
 7347 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 35 \\
 \hline
 37 \\
 \hline
 245 \\
 \hline
 1050 \\
 \hline
 1295 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 49 \\
 \hline
 37 \\
 \hline
 343 \\
 \hline
 1470 \\
 \hline
 1813 \\
 \hline
 \hline
 \end{array}$$

The next letter is e for eight.