

Name: _____

Multiplication

3-digit by 1-digit numbers

Directions: Use the number grid to decode the multiplication problems. Use the empty space to the right of each problem to show your work. Write the coordinates of the grid where your answer is found.

	A	B	C	D	E
1	327	5,220	3	9	5,454
2	606	423	8	2,418	403
3	4	8	5,728	432	7
4	546	9	580	716	2,616
5	2,961	888	6	2,664	108

example:

$\begin{array}{r} \text{B, 2} \\ \times \text{E, 3} \\ \hline \text{A, 5} \end{array}$	$\begin{array}{r} 4\ 2\ 3 \\ \times \quad 7 \\ \hline 2,961 \end{array}$
--	--

a.
$$\begin{array}{r} \text{E, 2} \\ \times \text{C, 5} \\ \hline \end{array}$$

b.
$$\begin{array}{r} \text{A, 1} \\ \times \text{C, 2} \\ \hline \end{array}$$

c.
$$\begin{array}{r} \text{C, 4} \\ \times \text{D, 1} \\ \hline \end{array}$$

d.
$$\begin{array}{r} \text{D, 4} \\ \times \text{B, 3} \\ \hline \end{array}$$

e.
$$\begin{array}{r} \text{E, 5} \\ \times \text{A, 3} \\ \hline \end{array}$$

f.
$$\begin{array}{r} \text{B, 5} \\ \times \text{C, 1} \\ \hline \end{array}$$

g.
$$\begin{array}{r} \text{A, 2} \\ \times \text{B, 4} \\ \hline \end{array}$$

Name: _____

Multiplication - ANSWER KEY 3-digit by 1-digit numbers

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example:

$\begin{array}{r} \text{B, 2} \quad 4 \ 2 \ 3 \\ \times \text{E, 3} \quad \quad \quad 7 \\ \hline \text{A, 5} \quad 2, \ 9 \ 6 \ 1 \end{array}$

$\begin{array}{r} \text{a. E, 2} \quad 4 \ 0 \ 3 \\ \times \text{C, 5} \quad \quad \quad 6 \\ \hline \text{D, 2} \quad 2, \ 4 \ 1 \ 8 \end{array}$
--

$\begin{array}{r} \text{b. A, 1} \quad 3 \ 2 \ 7 \\ \times \text{C, 2} \quad \quad \quad 8 \\ \hline \text{E, 4} \quad 2, \ 6 \ 1 \ 6 \end{array}$
--

$\begin{array}{r} \text{c. C, 4} \quad 5 \ 8 \ 0 \\ \times \text{D, 1} \quad \quad \quad 9 \\ \hline \text{B, 1} \quad 5, \ 2 \ 2 \ 0 \end{array}$
--

$\begin{array}{r} \text{d. D, 4} \quad 7 \ 1 \ 6 \\ \times \text{B, 3} \quad \quad \quad 8 \\ \hline \text{C, 3} \quad 5, \ 7 \ 2 \ 8 \end{array}$
--

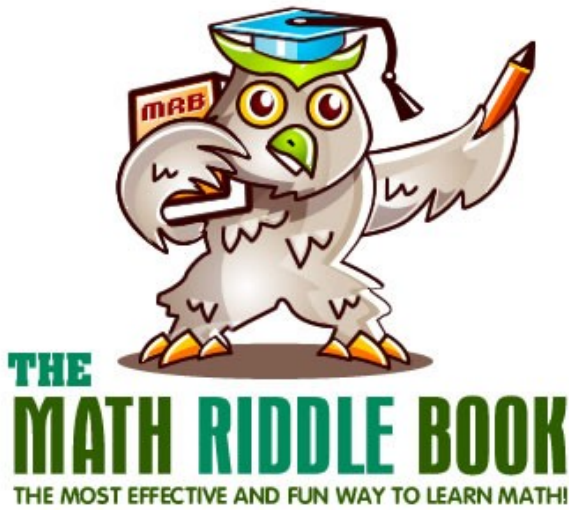
$\begin{array}{r} \text{e. E, 5} \quad 1 \ 0 \ 8 \\ \times \text{A, 3} \quad \quad \quad 4 \\ \hline \text{D, 3} \quad 4 \ 3 \ 2 \end{array}$

$\begin{array}{r} \text{f. B, 5} \quad 8 \ 8 \ 8 \\ \times \text{C, 1} \quad \quad \quad 3 \\ \hline \text{D, 5} \quad 2, \ 6 \ 6 \ 4 \end{array}$
--

$\begin{array}{r} \text{g. A, 2} \quad 6 \ 0 \ 6 \\ \times \text{B, 4} \quad \quad \quad 9 \\ \hline \text{E, 1} \quad 5, \ 4 \ 5 \ 4 \end{array}$
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For more fun multiplication worksheets, check out these two downloadable pdf eBooks.

www.mathriddlebook.com



Students solve math problems to decode the answers to funny riddles!

Name: _____ 3-Digit by 1-Digit Multiplication

The Invisible Man Goes to the Doctor **ANSWER KEY**

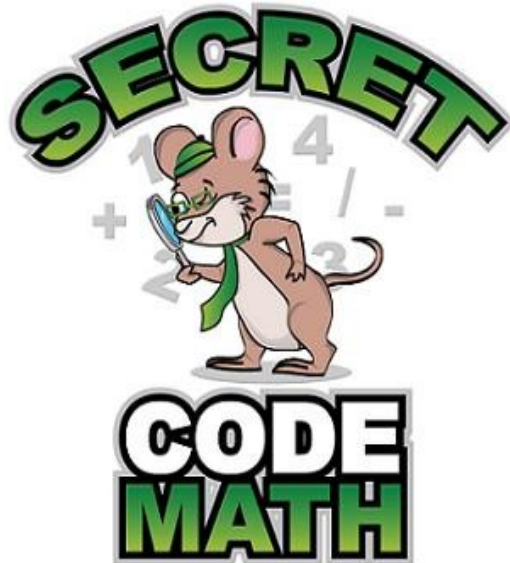
Multiply to find the products. Then, solve the riddle by matching the letters to the blank lines at the bottom of the page.

O	$\begin{array}{r} 134 \\ \times 5 \\ \hline 670 \end{array}$	O	$\begin{array}{r} 223 \\ \times 6 \\ \hline 1,338 \end{array}$	I	$\begin{array}{r} 413 \\ \times 8 \\ \hline 3,304 \end{array}$	G	$\begin{array}{r} 976 \\ \times 9 \\ \hline 8,784 \end{array}$	T	$\begin{array}{r} 287 \\ \times 4 \\ \hline 1,148 \end{array}$
S	$\begin{array}{r} 908 \\ \times 2 \\ \hline 1,816 \end{array}$	T	$\begin{array}{r} 232 \\ \times 5 \\ \hline 1,160 \end{array}$	R	$\begin{array}{r} 144 \\ \times 7 \\ \hline 1,008 \end{array}$	E	$\begin{array}{r} 622 \\ \times 8 \\ \hline 4,976 \end{array}$	H	$\begin{array}{r} 107 \\ \times 7 \\ \hline 749 \end{array}$
N	$\begin{array}{r} 567 \\ \times 3 \\ \hline 1,701 \end{array}$	S	$\begin{array}{r} 400 \\ \times 4 \\ \hline 1,600 \end{array}$	E	$\begin{array}{r} 167 \\ \times 3 \\ \hline 501 \end{array}$	R	$\begin{array}{r} 444 \\ \times 4 \\ \hline 1,776 \end{array}$	R	$\begin{array}{r} 500 \\ \times 7 \\ \hline 3,500 \end{array}$
N	$\begin{array}{r} 128 \\ \times 4 \\ \hline 512 \end{array}$	I	$\begin{array}{r} 349 \\ \times 8 \\ \hline 2,792 \end{array}$	W	$\begin{array}{r} 987 \\ \times 0 \\ \hline 0 \end{array}$	Y	$\begin{array}{r} 987 \\ \times 1 \\ \hline 987 \end{array}$	U	$\begin{array}{r} 546 \\ \times 2 \\ \hline 1,092 \end{array}$
A	$\begin{array}{r} 756 \\ \times 9 \\ \hline 6,804 \end{array}$	Y	$\begin{array}{r} 128 \\ \times 2 \\ \hline 256 \end{array}$	C	$\begin{array}{r} 600 \\ \times 3 \\ \hline 1,800 \end{array}$	O	$\begin{array}{r} 510 \\ \times 6 \\ \hline 3,060 \end{array}$		

What did the doctor say to the invisible man?

	S	O	R	R	Y	.	I			
	1,816	1,338	1,008	1,776	987	.	2,792			
C	A	N	T	S	E	E	Y	O	U	
1,800	6,804	512	1,160	1,600	501	4,976	256	3,060	1,092	
R	I	G	H	T	N	O	W	.		
3,500	3,304	8,784	749	1,148	1,701	670	0	.		

www.secretcodemath.com



Students use a symbol key to decode problems before they solve them.

Secret Code Math

Multiplication 3-Digits by 1-Digit

Decode the numbers and find the products.

1	2	3	4	5	6	7	8	9	0
●	○	∪	∩	⊥	⊥	÷	∨		■

Code Numbers	Regular Numbers	Code Numbers	Regular Numbers
∩ ∪ ○	4 6 2	⊥ ■	5 0 9
X	$\begin{array}{r} \times 3 \\ \hline 1,386 \end{array}$	X	$\begin{array}{r} \times 4 \\ \hline 2,036 \end{array}$
● ∪ ∨ ⊥	1, 3 8 6	○ ■ ∪ ⊥	2, 0 3 6

Code Numbers	Regular Numbers	Code Numbers	Regular Numbers
● ⊥ ⊥	1 6 6	○ ⊥ ∪	2 5 3
X	$\begin{array}{r} \times 7 \\ \hline 1,162 \end{array}$	X	$\begin{array}{r} \times 8 \\ \hline 2,024 \end{array}$
● ● ⊥ ○	1, 1 6 2	○ ■ ○ ∩	2, 0 2 4

Code Numbers	Regular Numbers	Code Numbers	Regular Numbers
∩ ∩ ∩	4 4 7	○ ∩ ∨	2 7 8
X	$\begin{array}{r} \times 9 \\ \hline 4,023 \end{array}$	X	$\begin{array}{r} \times 2 \\ \hline 556 \end{array}$
∩ ■ ○ ∪	4, 0 2 3	⊥ ⊥ ⊥	5 5 6

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