

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

exam



PREVIEW

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

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

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

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

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

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

Name: _____

Multiplication - ANSWER KEY

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exam



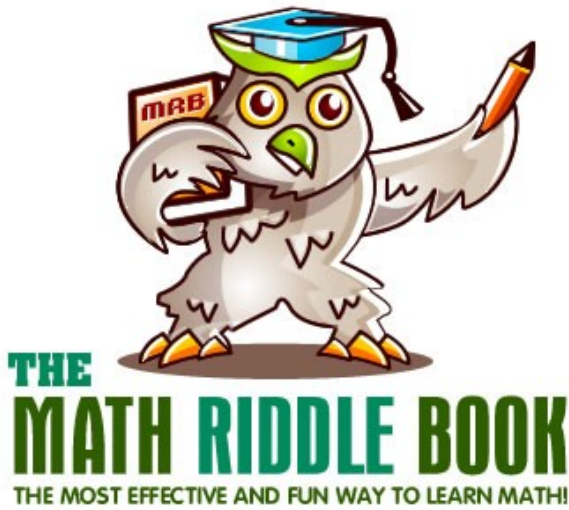
~ PREVIEW ~

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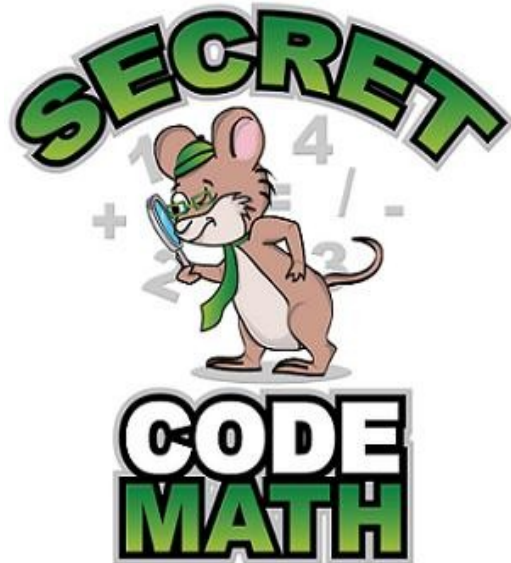
- | | | | | | | | | | | | | | |
|---|----------|-------|--------|-----|------|----------|---|------|-------|--------|-----|------|----------|
| <p>b.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">A, 1</td> <td style="width: 50%; text-align: right;">3 2 7</td> </tr> <tr> <td style="text-align: right;">x C, 2</td> <td style="text-align: right;">x 8</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: right;">E, 4</td> <td style="border-top: 1px solid black; text-align: right;">2, 6 1 6</td> </tr> </table> | A, 1 | 3 2 7 | x C, 2 | x 8 | E, 4 | 2, 6 1 6 | <p>c.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">C, 4</td> <td style="width: 50%; text-align: right;">5 8 0</td> </tr> <tr> <td style="text-align: right;">x D, 1</td> <td style="text-align: right;">x 9</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: right;">B, 1</td> <td style="border-top: 1px solid black; text-align: right;">5, 2 2 0</td> </tr> </table> | C, 4 | 5 8 0 | x D, 1 | x 9 | B, 1 | 5, 2 2 0 |
| A, 1 | 3 2 7 | | | | | | | | | | | | |
| x C, 2 | x 8 | | | | | | | | | | | | |
| E, 4 | 2, 6 1 6 | | | | | | | | | | | | |
| C, 4 | 5 8 0 | | | | | | | | | | | | |
| x D, 1 | x 9 | | | | | | | | | | | | |
| B, 1 | 5, 2 2 0 | | | | | | | | | | | | |
| <p>d.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">D, 4</td> <td style="width: 50%; text-align: right;">7 1 6</td> </tr> <tr> <td style="text-align: right;">x B, 3</td> <td style="text-align: right;">x 8</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: right;">C, 3</td> <td style="border-top: 1px solid black; text-align: right;">5, 7 2 8</td> </tr> </table> | D, 4 | 7 1 6 | x B, 3 | x 8 | C, 3 | 5, 7 2 8 | <p>e.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">E, 5</td> <td style="width: 50%; text-align: right;">1 0 8</td> </tr> <tr> <td style="text-align: right;">x A, 3</td> <td style="text-align: right;">x 4</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: right;">D, 3</td> <td style="border-top: 1px solid black; text-align: right;">4 3 2</td> </tr> </table> | E, 5 | 1 0 8 | x A, 3 | x 4 | D, 3 | 4 3 2 |
| D, 4 | 7 1 6 | | | | | | | | | | | | |
| x B, 3 | x 8 | | | | | | | | | | | | |
| C, 3 | 5, 7 2 8 | | | | | | | | | | | | |
| E, 5 | 1 0 8 | | | | | | | | | | | | |
| x A, 3 | x 4 | | | | | | | | | | | | |
| D, 3 | 4 3 2 | | | | | | | | | | | | |
| <p>f.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">B, 5</td> <td style="width: 50%; text-align: right;">8 8 8</td> </tr> <tr> <td style="text-align: right;">x C, 1</td> <td style="text-align: right;">x 3</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: right;">D, 5</td> <td style="border-top: 1px solid black; text-align: right;">2, 6 6 4</td> </tr> </table> | B, 5 | 8 8 8 | x C, 1 | x 3 | D, 5 | 2, 6 6 4 | <p>g.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">A, 2</td> <td style="width: 50%; text-align: right;">6 0 6</td> </tr> <tr> <td style="text-align: right;">x B, 4</td> <td style="text-align: right;">x 9</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: right;">E, 1</td> <td style="border-top: 1px solid black; text-align: right;">5, 4 5 4</td> </tr> </table> | A, 2 | 6 0 6 | x B, 4 | x 9 | E, 1 | 5, 4 5 4 |
| B, 5 | 8 8 8 | | | | | | | | | | | | |
| x C, 1 | x 3 | | | | | | | | | | | | |
| D, 5 | 2, 6 6 4 | | | | | | | | | | | | |
| A, 2 | 6 0 6 | | | | | | | | | | | | |
| x B, 4 | x 9 | | | | | | | | | | | | |
| E, 1 | 5, 4 5 4 | | | | | | | | | | | | |


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670 1,338 3,304 8,784 1,148

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

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	
3,500	3,304	8,784	749	1,148	1,701	670	0				

Code Numbers	Regular Numbers	Code Numbers	Regular Numbers
$\begin{array}{r} \diagup \diagdown \curvearrowright \\ \times \quad \curvearrowleft \\ \hline \bullet \curvearrowright \curvearrowleft \curvearrowright \end{array}$	$\begin{array}{r} 462 \\ \times 3 \\ \hline 1,386 \end{array}$	$\begin{array}{r} \sqcap \blacksquare \\ \times \quad \diagdown \\ \hline \curvearrowleft \blacksquare \curvearrowright \end{array}$	$\begin{array}{r} 509 \\ \times 4 \\ \hline 2,036 \end{array}$
$\begin{array}{r} \bullet \diagdown \diagup \\ \times \quad \div \\ \hline \bullet \bullet \diagdown \curvearrowleft \end{array}$	$\begin{array}{r} 166 \\ \times 7 \\ \hline 1,162 \end{array}$	$\begin{array}{r} \curvearrowleft \sqcap \curvearrowright \\ \times \quad \triangledown \\ \hline \curvearrowleft \blacksquare \curvearrowright \diagdown \end{array}$	$\begin{array}{r} 253 \\ \times 8 \\ \hline 2,024 \end{array}$
$\begin{array}{r} \diagdown \diagdown \div \\ \times \quad \\ \hline \diagdown \blacksquare \curvearrowright \end{array}$	$\begin{array}{r} 447 \\ \times 9 \\ \hline 4,023 \end{array}$	$\begin{array}{r} \curvearrowleft \div \triangledown \\ \times \quad \curvearrowleft \\ \hline \sqcap \sqcap \end{array}$	$\begin{array}{r} 278 \\ \times 2 \\ \hline 556 \end{array}$

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