

Super SUDOKU

Name _____ Date _____

Multiplying by 4

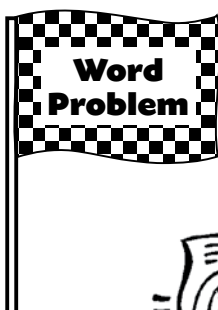
Directions

- Every row, column, and 2-by-2 box  should contain each of these digits:

1 2 3 4

- Fill in each blank with the correct number to complete the fact.

$\begin{array}{r} 4 \\ \times \quad \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ \times 10 \\ \hline _0 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline _0 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline _2 \end{array}$
$\begin{array}{r} 4 \\ \times 4 \\ \hline _6 \end{array}$	$\begin{array}{r} 4 \\ \times _ \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ \times 12 \\ \hline _8 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline _6 \end{array}$
$\begin{array}{r} 4 \\ \times 6 \\ \hline _4 \end{array}$	$\begin{array}{r} 4 \\ \times _ \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline _6 \end{array}$	$\begin{array}{r} _ \\ \times 6 \\ \hline 24 \end{array}$
$\begin{array}{r} 4 \\ \times 11 \\ \hline 4 _ \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline _2 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline _6 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline _8 \end{array}$



The trick to multiplying by 4? Simply double the number and then double it again. Use that plan to find the answer to 20×4 .



Multiplication Table

×	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

How to use this table

Multiplication:

Example: To find 8×3 :

1. Go down to the "8" row.
2. Follow the "8" row across to meet the "3" column.
3. Find your answer: **24**!

Division:

Example: To find $12 \div 4$:

1. Go across to the "4" column.
2. Go down to find the dividend **12**.
3. Go back across the row to find your answer: **3**!

Regular-sized Puzzles

Rule 1

1	2	3	4
3	4	1	2
2	1	4	3
4	3	2	1

► Fill in the **row** so that it contains numbers 1 through 4.

Rule 2

1	2	3	4
3	4	1	2
2	1	4	3
4	3	2	1

► Fill in the **column** so that it contains numbers 1 through 4.

Rule 3

1	2	3	4
3	4	1	2
2	1	4	3
4	3	2	1

► Fill in the 2-by-2 **box** so that it contains the numbers 1 through 4.

Answer Key

Page 1

3	4	2	1
1	2	4	3
2	1	3	4
4	3	1	2

Word Problem:
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