Math Antics
Worksheets

Memorizing Multiplication Facts

Memorizing the Multiplication Table can be a challenge. Fortunatly, a few basic math rules reduce the amount of multiplication facts that you need to actually memorize. This page is a summary of those rules.

Multiplication Rules:

1. **Zero Property : Anything times zero is zero.**
   You don't have to memorize multiplication facts involving zero.
   The answer is always just 0.
   Example: $7 \times 0 = 0$

2. **Identity Property : Anything times 1 is just itself.**
   You don't have to memorize multiplication facts involving 1.
   The answer is always just the same number you started with.
   Example: $9 \times 1 = 9$

3. **Times 10 : Anything times 10 just gets an extra zero stuck to the end.**
   You don't have to memorize multiplication facts involving 10.
   You just put an extra zero on the end of the number being multiplied by 10.
   Example: $4 \times 10 = 40$

4. **Commutative Property : You can switch the order of a multiplication problem.**
   You don't have to memorize both combinations of a multiplication problem.
   You get the same answer no matter which order the numbers are in.

   If you know: Then you also know:
   $3 \times 5 = 15$ $5 \times 3 = 15$

Multiplication Table:

Knowing the rules above means that you only really need to memorize the 36 multiplication facts shown in white on this table.

	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81

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Review of Basic Multiplication Facts

Instructions: Multiply these numbers. (This set includes the 36 multiplication facts you really need to memorize.)

$\begin{array}{r}5\\ \times\,8\\ \hline\end{array}$	$\begin{array}{r}7\\ \times\,5\\ \hline\end{array}$	$\begin{array}{r}2\\ \times\,2\\ \hline\end{array}$	$\begin{array}{r}4\\ \times\,6\\ \hline\end{array}$	$\begin{array}{r}3\\ \times\,8\\ \hline\end{array}$
$\begin{array}{r}7\\ \times\,3\\ \hline\end{array}$	$\begin{array}{r}3\\ \times\,2\\ \hline\end{array}$	$\begin{array}{r}2\\ \times\,6\\ \hline\end{array}$	$\begin{array}{r}2\\ \times\,5\\ \hline\end{array}$	$\begin{array}{r}8\\ \times\,9\\ \hline\end{array}$
$\begin{array}{r}4\\ \times\,2\\ \hline\end{array}$	$\begin{array}{r}6\\ \times\,6\\ \hline\end{array}$	$\begin{array}{r}3\\ \times\,4\\ \hline\end{array}$	$\begin{array}{r}9\\ \times\,4\\ \hline\end{array}$	$\begin{array}{r}3\\ \times\,3\\ \hline\end{array}$
$\begin{array}{r}6\\ \times\,7\\ \hline\end{array}$	$\begin{array}{r}7\\ \times\,4\\ \hline\end{array}$	$\begin{array}{r}5\\ \times\,6\\ \hline\end{array}$	$\begin{array}{r}6\\ \times\,8\\ \hline\end{array}$	$\begin{array}{r}7\\ \times\,8\\ \hline\end{array}$
$\begin{array}{r}7\\ \times\,7\\ \hline\end{array}$	$\begin{array}{r}2\\ \times\,7\\ \hline\end{array}$	$\begin{array}{r}9\\ \times\,3\\ \hline\end{array}$	$\begin{array}{r}9\\ \times\,5\\ \hline\end{array}$	
$\begin{array}{r}3\\ \times\,5\\ \hline\end{array}$	$\begin{array}{r}8\\ \times\,8\\ \hline\end{array}$	$\begin{array}{r}2\\ \times\,8\\ \hline\end{array}$	$\begin{array}{r}2\\ \times\,9\\ \hline\end{array}$	
$\begin{array}{r}5\\ \times\,5\\ \hline\end{array}$	$\begin{array}{r}3\\ \times\,6\\ \hline\end{array}$	$\begin{array}{r}4\\ \times\,4\\ \hline\end{array}$	$\begin{array}{r}9\\ \times\,9\\ \hline\end{array}$	
$\begin{array}{r}8\\ \times\,4\\ \hline\end{array}$	$\begin{array}{r}7\\ \times\,9\\ \hline\end{array}$	$\begin{array}{r}4\\ \times\,5\\ \hline\end{array}$	$\begin{array}{r}6\\ \times\,9\\ \hline\end{array}$	

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Re-Writing Multiplication Problems

Instructions: Re-write these multiplication problems in stacked form. You do NOT need to actually multiply them.

1 84×7

$$\begin{array}{r} 84 \\ \times\ 7 \\ \hline \end{array}$$

2 6×143

3 4×19

4 8×135

5 78×5

6 716×4

7 320×9

8 6×512

9 $1,061 \times 5$

10 $7 \times 2,378$

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Multi-Digit Multiplication

Instructions: Follow the procedure you learned in the video to multiply these numbers.

1
$$\begin{array}{r} 62 \\ \times\ \ 3 \\ \hline 186 \end{array}$$

2
$$\begin{array}{r} 97 \\ \times\ \ 2 \\ \hline \end{array}$$

3
$$\begin{array}{r} 38 \\ \times\ \ 5 \\ \hline \end{array}$$

4
$$\begin{array}{r} 18 \\ \times\ \ 6 \\ \hline \end{array}$$

5
$$\begin{array}{r} 26 \\ \times\ \ 6 \\ \hline \end{array}$$

6
$$\begin{array}{r} 67 \\ \times\ \ 3 \\ \hline \end{array}$$

7
$$\begin{array}{r} 52 \\ \times\ \ 4 \\ \hline \end{array}$$

8
$$\begin{array}{r} 33 \\ \times\ \ 8 \\ \hline \end{array}$$

9
$$\begin{array}{r} 57 \\ \times\ \ 4 \\ \hline \end{array}$$

10
$$\begin{array}{r} 64 \\ \times\ \ 8 \\ \hline \end{array}$$

11
$$\begin{array}{r} 135 \\ \times\ \ \ 5 \\ \hline \end{array}$$

12
$$\begin{array}{r} 216 \\ \times\ \ \ 4 \\ \hline \end{array}$$

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Multi-Digit Multiplication - Set 2

Instructions: Follow the procedure you learned in the video to multiply these numbers.

1
$$
\begin{array}{r}
1 \\
346 \\
\times\quad 2 \\
\hline
692
\end{array}
$$

2
$$
\begin{array}{r}
402 \\
\times\quad 7 \\
\hline
\end{array}
$$

3
$$
\begin{array}{r}
145 \\
\times\quad 4 \\
\hline
\end{array}
$$

4
$$
\begin{array}{r}
873 \\
\times\quad 5 \\
\hline
\end{array}
$$

5
$$
\begin{array}{r}
841 \\
\times\quad 3 \\
\hline
\end{array}
$$

6
$$
\begin{array}{r}
609 \\
\times\quad 9 \\
\hline
\end{array}
$$

7
$$
\begin{array}{r}
419 \\
\times\quad 3 \\
\hline
\end{array}
$$

8
$$
\begin{array}{r}
586 \\
\times\quad 2 \\
\hline
\end{array}
$$

9
$$
\begin{array}{r}
728 \\
\times\quad 8 \\
\hline
\end{array}
$$

10
$$
\begin{array}{r}
820 \\
\times\quad 6 \\
\hline
\end{array}
$$

11
$$
\begin{array}{r}
243 \\
\times\quad 9 \\
\hline
\end{array}
$$

12
$$
\begin{array}{r}
536 \\
\times\quad 7 \\
\hline
\end{array}
$$

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Multi-Digit Multiplication - Set 3

Instructions: Follow the procedure you learned in the video to multiply these numbers.

1
$$\begin{array}{r} 3 \\ 24 \\ \times\ 8 \\ \hline 192 \end{array}$$

2
$$\begin{array}{r} 63 \\ \times\ 5 \\ \hline \end{array}$$

3
$$\begin{array}{r} 73 \\ \times\ 7 \\ \hline \end{array}$$

4
$$\begin{array}{r} 51 \\ \times\ 9 \\ \hline \end{array}$$

5
$$\begin{array}{r} 329 \\ \times\ 3 \\ \hline \end{array}$$

6
$$\begin{array}{r} 795 \\ \times\ 2 \\ \hline \end{array}$$

7
$$\begin{array}{r} 617 \\ \times\ 4 \\ \hline \end{array}$$

8
$$\begin{array}{r} 834 \\ \times\ 6 \\ \hline \end{array}$$

9
$$\begin{array}{r} 1{,}306 \\ \times\ 4 \\ \hline \end{array}$$

10
$$\begin{array}{r} 3{,}286 \\ \times\ 6 \\ \hline \end{array}$$

11
$$\begin{array}{r} 9{,}312 \\ \times\ 8 \\ \hline \end{array}$$

12
$$\begin{array}{r} 4{,}072 \\ \times\ 3 \\ \hline \end{array}$$

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